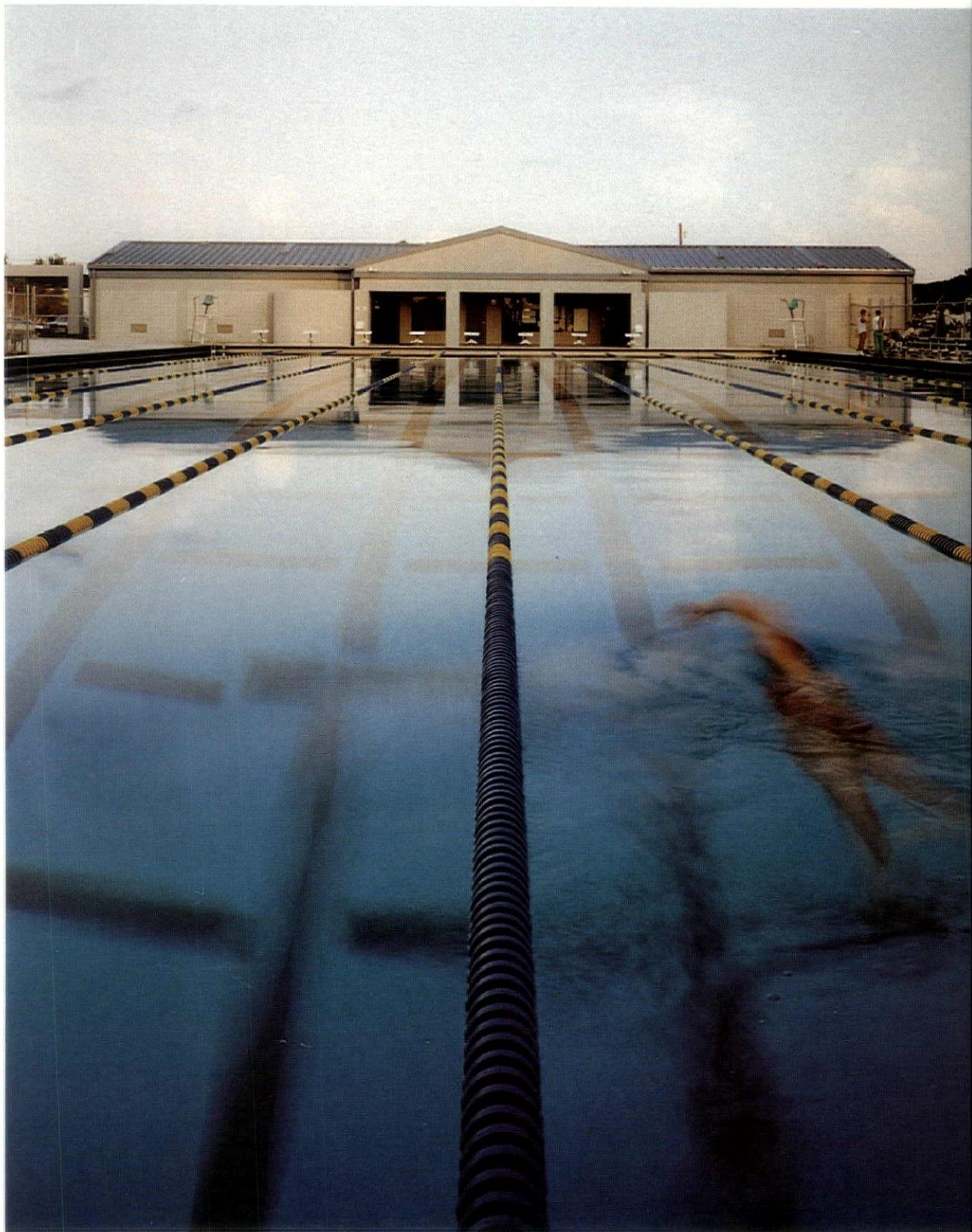


The American Institute of Architects
Library
1735 New York Avenue, NW
Washington, DC 20006

THE WISCONSIN ARCHITECT

THE WISCONSIN SOCIETY OF ARCHITECTS



OCTOBER 1985
COMPUTERS/INSTITUTIONAL

Introduction

*Malpractice Insurance
or Hit Me With A Switch . . . I'm going Bare*
By Eric Englund

Several recent developments in the malpractice insurance business for architects and engineers have escalated the love/hate relationship in existence between A-E's and their insurance carriers. Insurance premiums have skyrocketed, in some cases in Wisconsin firms' premiums have gone up over 300%. A number of insurance companies have quit providing the coverage, in some cases in Wisconsin leaving firms without insurance carriers. Most insurance companies are exempting asbestos related work from their scope of coverage, with this exception apparently relating to work that was done in past years and which was then covered by insurance.

With the insurance industry tightening down the screws on the profession, there appears to be an ever increasing propensity on the part of owners, contractors and injured parties to sue the project architect. A school burns down when a midnight intruder takes an acetylene torch to a door frame . . . sue the architect. The owners of the 25 year old office building who want to add an addition are required to increase exits on the existing building . . . sue the architect. A zoo keeper on her first day of employment tries to pet an elephant who steps on her toes . . . sue the architect.

As crazy as these lawsuits sound, it costs lots of money to defend your-

self, even when you aren't at fault. Further compounding the problem is the reality that architects, like all others, are fallible and do make errors. The reality of architecture is that at times those errors can be extremely expensive.

Many of today's architects, when faced with the costs of very substantial premium increases, are contemplating or have already decided to practice without insurance protection. Is this penny wise? Unfortunately there are no simple answers. The consequences of "going bare" can be severe. While it may be true that some injured parties will not sue an architect who does not have the substantial assets of an insurance policy to back them up, there are no guarantees that this will happen. An architect who finds himself in a lawsuit without the protection of insurance faces substantial costs in defending the action. These costs can be substantially magnified if the injured party prevails and wins a substantial judgment against the architect. Depending on the nature of the error and the relationship of the architect or firm to that error, both the assets of the architectural firm that provided the service **and the individual who stamped the plans** can be subject to collection actions by the injured party. In its worst case this can mean that an individual architect may be required to sell existing assets to pay off the judgment.

Even if an architect has no assets which can be sold, an injured party may be able to collect by garnishment of the architect's future income.

Sure there is the ultimate escape hatch from a large judgment . . . personal bankruptcy. Unfortunately bankruptcy has severe negative drawbacks and will only be considered in the most severe of situations.

While there is apparently no industry standard, it appears that many Wisconsin firms are expending two - eight percent of their gross billings for insurance premiums. There are many Wisconsin architects who are foregoing this expense. In foregoing the opportunity to obtain errors and omissions coverage, the architects and their firms subject themselves to severe financial risks. Clearly some of those risks can be reduced through careful planning, but equally clear is the reality that the financial risks of going bare remain substantial and cannot be eliminated. The economic consequences of practicing without insurance can be disastrous and it is critical that architects examine those consequences prior to taking such drastic action. ■



THE WISCONSIN ARCHITECT

WISCONSIN SOCIETY OF ARCHITECTS

WISCONSIN SOCIETY OF ARCHITECTS AMERICAN INSTITUTE OF ARCHITECTS

Board of Directors: Harry Schroeder, *President*; Jim Miller, *Vice President*; Robert Cooper, *Secretary/Treasurer*; Fred Zimmermann, *Past President*; Dan Murrish, Madison; Joe Powelka, Madison; Bob Shipley, Madison; Jim Otto, Milwaukee; Michael Ciofani, Milwaukee; Martin Choren, Milwaukee; Pat Frost, Milwaukee; Dennis D'Jock, Eau Claire; Val Schute, La Crosse; David Peterson, Eau Claire; Frank Carter, Green Bay; Curt Bigger, Appleton; James Larson, Oshkosh; Harry Schroeder, La Crosse; Wayne Spangler, Rice Lake; Frederick Jules, Milwaukee; Emma Macari, Madison; Dennis Olson, Appleton; Kenton Peters, Madison; Lisa Kimla, Elm Grove; Russ La Frombois, UW-M SARUP Rep; Ann L. Johnson, MSOE Rep.; Eric Englund, Executive Director.

Wisconsin Architects Foundation Board of Trustees: 321 S. Hamilton St., Madison, WI 53703 — Phone 608/257-8477. Tom Nisbet, AIA *President*; Bob Beckley, FAIA, *Vice President*; Robert Yarbro, AIA, *Secretary/Treasurer*; Paul Bronson; Paul Graven, FAIA; Emma Macari, AIA; John Jacoby, FAIA; George Schuett, FAIA; David Gaarder, AIA; Eric Englund, *Executive Director*.

Wisconsin Society of Architects; A.I.A.: 321 S. Hamilton St., Madison, WI 53703 — Phone 608/257-8477.

North Central Region: David Lawson, FAIA, *Director*.

Southwest Chapter Officers: Danny Murrish, *President*; Joe Powelka, *Vice President/President Elect*; Robert Shipley, *Secretary/Treasurer*.

Southeast Chapter Officers: James Otto, *President*; Michael Ciofani, *Vice President/President Elect*; Martin Choren, *2nd Vice President*; Pat Frost, *Secretary/Treasurer*.

Northeast Chapter Officers: Frank Carter, *President*; Curtis Biggar, *Vice President/President Elect*; James Larson, *Secretary/Treasurer*.

Northwest Chapter Officers: Dennis D'Jock, *President*; Val Schute, *Vice President/President Elect*; David Peterson, *Secretary/Treasurer*.

Wisconsin Architect Inc.: *Board of Directors:* Harry Schroeder, AIA; Jim Miller, AIA; Bob Cooper, AIA; Fred Zimmermann, AIA.

Wisconsin Architect Editorial Board: Peter Schuyler, *Chairman*; Uel C. Ramey, Douglas Ryhn, Harry J. Wirth, AIA, Eric Englund. *Layout and Design:* Harry J. Wirth, AIA. *Times Printing Co., Random Lake, WI - Printer;* Nancy A. Baxter - *Advertising Manager;* Grace Stith, *Coordinating Editor*.

The Wisconsin Architect is the official publication of the Wisconsin Society of Architects/A.I.A., published by The Wisconsin Architect, Inc. Address all editorial and advertising inquiries to: Editor, The Wisconsin Architect, 321 S. Hamilton St., Madison, WI 53703; phone: 608/257-8477. The Wisconsin Architect and WSA disclaims liability for statements by the editors, contributors, and advertisers.

Projects

Pewaukee Veterinary Service	15
Good Samaritan Medical Center	17
Mequon Medical Park	23

Reports

Introduction Eric Englund	2
Help! Thomas A. Heike, AIA	5
DILHR Preliminary Review Policy	6
Code Update	8
Computers Ronald V. Gobbell, AIA	11

News

Society News	25
Marketplace	30

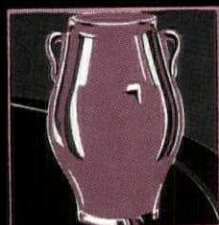


Cover Credit:
Recreation Facility
By Mudan Associates
Architects, Largo, Florida
Eric Oxendorf, Photographer

THE WISCONSIN ARCHITECT, serving the construction industry in Wisconsin with circulation to Architects, Engineers, General Contractors, Business and Interior Designers, Landscape Architects, Certified Planners, Developers, Specifiers, Construction Managers, Builders, Manufacturers, Suppliers.



MILAN



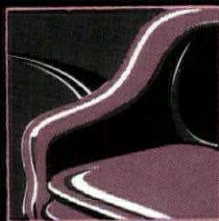
BOGOTA



MAZATLAN



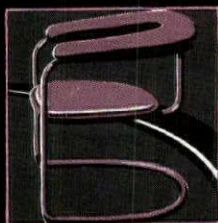
SINGAPORE



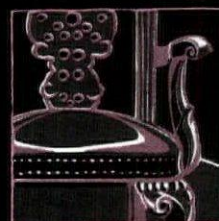
STOCKHOLM



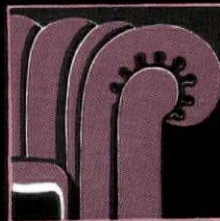
HONG KONG



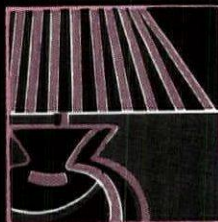
GRAND RAPIDS



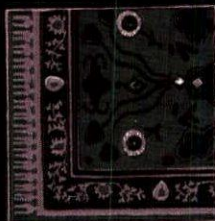
LONDON



DUBUQUE



NEW YORK



NEW DELHI

These cities are now in another location: Minneapolis.

INTERNATIONAL MARKET SQUARE



INTERNATIONAL MARKET SQUARE
275 Market Street
Minneapolis, MN 55405
(612) 338-6250

At International Market Square. The country's premiere new center, with an attitude that's decidedly different from any market or design center you've been to before.

For the first time anywhere, you'll find a Home Furnishings Mart and a complete Design Center all under one roof.

There are 200 showrooms. Filled with the names you and your customers know. As well as a few ingenious surprises.

It's been called one of the best designed, most efficient markets in the country. But we invite you to come form your own opinion.

July 24-28 Home Furnishings Market; August 11-12 Accessory Market; September 12-13 Contract Market and Design Conference; October 27-29 Home Furnishings Market; November 16 Expo II: Contract Day. For 1986 Market Dates, Please Call.



THE BOLD LOOK
OF **KOHLER**

In the world of Kohler, form and function emerge triumphant. Here, the Flair II™ Faucet in cast brass, a tribute to Kohler imagination. Available in polished brass and chrome to suit any decorating scheme. For more details see the Yellow Pages, or send \$2 for a color catalog to Kohler Co., Dept. AE4, Kohler, Wisconsin 53044.

© 5028 Copyright 1985 Kohler Co.

“ATTENTION ARCHITECTS!”
FOR YOUR NEXT PLUMBING
OR HEATING PROJECT, CONSULT
WITH YOUR LOCAL KOHLER DISTRIBUTOR
LISTED HERE.

APPLETON

Baker Manufacturing Co.

550 Hickory Farm Lane
Appleton, WI 54913
Telephone: (414) 734-9284

W. S. Patterson Co.

2100 W. College Ave.
P.O. Box 1177
Appleton, WI 54912
Telephone: (414) 739-3136

GREEN BAY

Murphy Supply Co.

1055 Lake St.
P.O. Box 19310
Green Bay, WI 54310-9310
Telephone: (414) 497-7004

MADISON

Automatic Temperature Supplies, Inc.

1023 E. Main St. (53703)
P.O. Box 1151 (53701)
Madison, WI
Telephone: (608) 257-3755

MILWAUKEE

Milwaukee P & H Supply Co.

1313 W. St. Paul Ave.
Milwaukee, WI 53233
Telephone: (414) 273-3600

United P & H Supply Co.

9947 W. Carmen Ave.
P.O. Box 25342
Milwaukee, WI 53225
Telephone: (414) 464-5100

RHINELANDER

W. S. Patterson Co. (Branch)

1672 Menominee Dr.
Rhineland, WI 54501
Telephone: (715) 362-7824

WISCONSIN RAPIDS

W. S. Patterson Co. (Branch)

2111 Engel Road
Wisconsin Rapids, WI 54494
Telephone: (715) 421-1585

SHEBOYGAN

J. J. Koepsell Co.

A Kohler Registered Showroom
1010 S. 9th St.
Sheboygan, WI 53081
Telephone: (414) 457-3646

Dear Fellow Members of the WSA:

This has been a good year for most of us with the decrease in interest rates followed by expanded vitality in private and public sector development. We have been very busy addressing the needs of our clients and making sure their projects meet schedules and budgets.

Occasionally it's good to take a moment in our hectic day to look at the bigger picture, i.e., the society as a whole, and to reflect on its needs. We have a responsibility for the quality of human environments, as well as to those who use them.

This is again the time of year for the annual United Way Campaign in your community. As you know, United Way is a national, non-profit, voluntary organization which raises money and allocates it to human care agencies. It is an opportunity for us as professionals to help those in our own communities who need it most; to "Make Someone Happy" by improving the quality of their lives in another way.

In the next few weeks, you will be asked to contribute to the 1985 United Way Campaign by one of your peers. As Chairman of the Architect Division for United Way in the Greater Milwaukee Area for the second consecutive year, I ask that you support your local United Way efforts and give generously this year.

The WSA has endorsed the United Way's mission.

Best regards,
HEIKE/DESIGN ASSOCIATES, INC.

Thomas A. Heike, AIA
President

DILHR Preliminary Review Policy

Preliminary Design Reviews are conducted for the purpose of resolving code related questions and/or problems uncovered by the designer during the design stages of a project. The Bureau's resolution of the question(s) or problem(s) is in writing, and binding on the plan examiner.

Preliminary Design Reviews are conducted either in the Bureau's office, by appointment, or on mailed in plans.

Preliminary reviews are conducted both for our benefit and the owner's and designer's benefit. With this in mind, these policies should be considered as guidelines only, not hard and fast rules, particularly with respect to who may request a preliminary, and what is discussed during the preliminary. A decision on whether or not to conduct a preliminary must be tailored to the individual project under consideration, and the reasons for requesting preliminary review.

The preliminary design service is intended to assist the building owner and designer within the noncompetitive, nondesign limitations of our division.

Preliminary Review Meeting:

These meetings are conducted, generally, only by appointment. Preliminary Reviews for new projects will be conducted only by the supervisory and leadworker staff. Preliminary Reviews for subsequent submissions on an assigned project (tenant spaces, additional buildings in a complex, etc.) will be done by the plan examiner assigned to the project.

Because of the limitation on who may conduct a Preliminary Review, we must insist that an appointment be made so that the requester does not make a trip to our office

only to find that no one is available to conduct their review.

However, we are in the business to serve the public, so every effort will be made to accommodate walk-in preliminary requesters. If it is determined that a walk-in cannot be accommodated, the plans may be left, and will be handled similar to a mailed in request.

Mailed In Preliminaries:

A mailed in preliminary involves the submission of a plan (1 copy is sufficient) of sufficient detail to explain the problem or question. The plan must be accompanied by a letter setting forth the code questions or problems the submitter wishes resolved. The preliminary plan may have penciled markings clarifying the submitter's request. Preliminary plans need not be signed or sealed.

The preliminary plan, letter and file, if any, following administrative recording procedures, will be given to either Clyde Bryant or John Eagon for response or assignment.

We will respond to a mailed in preliminary request within 15 business days of receipt.

Record of Meeting:

It is **mandatory** that a form DILHR SB148 be prepared for every Preliminary Design Meeting and Review of mailed in preliminary plans. This form is required even if no interpretation is made.

The Preliminary Design Review record must be numbered. The number is in three parts (XX-XXX-XXXX). The first two digits relate to the year in which the preliminary is conducted, the next three digits are the employee's identification number, and the last four digits reflect the sequential number of Preliminary Reviews conducted by that examiner in that year. The plan reviewed will be tagged with the

same number as the Preliminary Review report.

Who May Request a Preliminary:

Because Preliminary Reviews are intended to resolve code related questions and/or problems uncovered by the designer, if the structure contains more than 50,000 cubic feet, only the architect or engineer should request a Preliminary Review. The architect or engineer should be the one who submits the mailed in preliminary plans and questions, and the architect, engineer or their employee should be the individual who keeps a Preliminary Review appointment. It is very difficult to discuss code related questions with owners who are typically unfamiliar with the building code requirements. Often the owner will accompany the designer to the Preliminary Review appointment. This is acceptable, however, the preliminary reviewer must control the meeting such that it does not evolve into a design conference between the owner and designer.

It may well be that an owner of a building questions a code interpretation made by the designer, and wishes a preliminary review to confirm the designer's interpretation. This is a valid reason for conducting a preliminary review with an owner, rather than the designer, on a project.

If the structure contains less than 50,000 cubic feet, we will conduct Preliminary Reviews at the request of the owner, provided the owner is the designer, and has specific questions related to code interpretation.

Errors:

As indicated earlier, Preliminary Review determinations are binding on the plan examiner. This is necessary in order to provide creditability to our Preliminary Review process.

However, should a plan examiner feel that a preliminary reviewer exceeded authority, or made a definite error, the examiner may question the determination on a Preliminary Review by bringing it to the attention of his/her leadworker and/or supervisor. The plan examiner should not express this concern to the designer or owner. If the validity of the preliminary determination cannot be resolved at the leadworker/supervisory level, the Bureau Director will make the determination. If it is determined that the Preliminary Review is in error, the preliminary reviewer will write a letter to the designer, carbon copy to the owner, reversing the determination, and explaining the reasons for this action. Under no circumstances may a plan examiner, unilaterally, reverse a determination on a Preliminary Design report.

Time Reporting:

Time spent making a Preliminary Design Review appointment, conducting the review, preparing the report and responding to subsequent questions on that report should be charged to Project 867, Function 787.

Do's and Don'ts:

Do prepare a form SB148 for all preliminaries, both in our office and mails ins.

Do retain a plan for all preliminaries.

Do answer, in writing, all of the questions and problems addressed by the submitter.

Do answer other questions and problems, which you note while reviewing the plans in response to submitter's questions.

Don't schedule a general Preliminary Review of plans. The general

review of plans is accomplished when plans are submitted in accordance with ILHR 50.12. Preliminary Reviews are to resolve questions and problems only. It may well be to our benefit to conduct a general review of preliminary plans for large or complex projects, without having specific problems or questions addressed by the designer. Although designers are supposed to know the code, we are the experts in the code, and we may be able to uncover potential problems on complex projects prior to the expenditure of significant design and development costs.

Don't conduct Preliminary Reviews on projects which will be submitted to certified cities. Those Preliminary Reviews should be conducted by the certified city inspector. We will do Preliminary Reviews on these projects only if requested by the city inspector, and then limited to the code sections indicated by the city inspector.

Don't compete with private industry. Private industry designers and firms make their living by conducting feasibility studies and designing buildings. The Preliminary Design Review process of our Bureau should not be used for purposes of determining project feasibility, nor should the Preliminary Design reviewer enter into building design.

Don't conduct a Preliminary Review on a proposed Petition for Variance. The preliminary reviewer may identify the need for a petition, should provide information regarding the intent of the rule which may be petitioned, and may direct the submitter to our files for additional information. Because petition reviews are judgmental, preliminary reviewers should not attempt to second guess the opinions of a petition reviewer by suggesting specific provisions to be

included on a potential Petition for Variance.

Don't break the code. Decisions on Preliminary Reviews must be based on the Code, the Code Commentary and Official Interpretations issued by the Division. Variances to the code should be resolved through the petition process, not the preliminary review process.

Don't, if at all possible, become another preliminary reviewer on a project which has had a previous preliminary review by another staff person. It is best if all preliminary reviews on projects are done by one individual. ■

Code Update

1986/1987 Edition

Wisconsin Administrative Building And Heating,
Ventilating and Conditioning Code
Chapters ILHR 50 - 64

The 1986/1987 edition of the Wisconsin Administrative Building and Heating, Ventilating and Air Conditioning Code was adopted by DILHR Secretary Howard S. Bellman on July 22, 1985. The Wisconsin Building Code has been on a 2-year update cycle since 1980.

In response to requests from code users, the department has arranged for the printing and distribution of the 1986/1987 edition with the August, 1985 Wisconsin Administrative Register on or about September 1, 1985. This will provide approximately 4 months lead time for designers to familiarize themselves with the code before it goes into effect on January 1, 1986.

The new code in standard 6 inch by 9 inch format will be available from Department of Administration, Document Sales and Distribution on or about September 1, 1985. The new code in 8½ inch by 11 inch enlarged-type format will be available from the Division of Safety and Buildings on or about October 15, 1985. The enlarged-type version of the code will be punched for a standard 3-hole ring binder and will include vertical bar markings in the margin to identify changed text and dictionary-type headings on each page based on code section numbers.

The majority of changes included in the new code are deregulatory in nature. The department has codified the official interpretations published in the Wisconsin Building Code Report from January, 1984 to the present. In addition, new code sections address the topics of atriums, skywalks and the use of "direct vent sealed combustion chamber appliances" without furnace room enclosure.

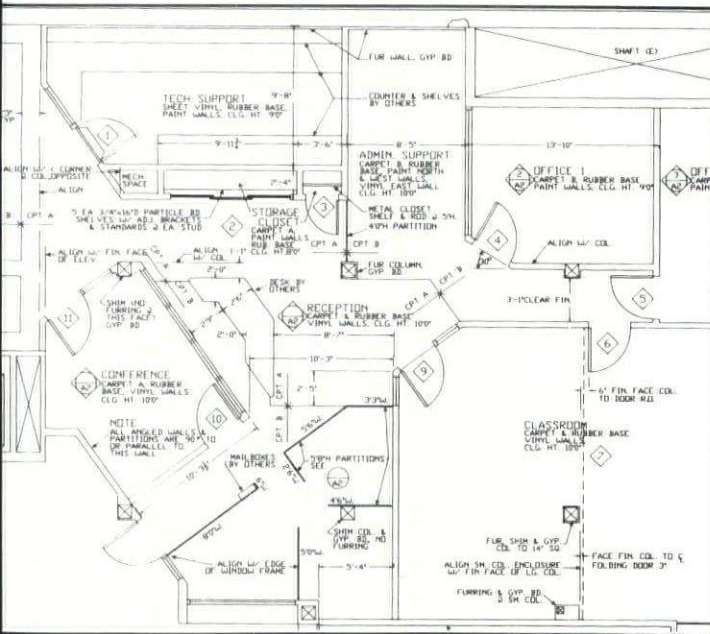
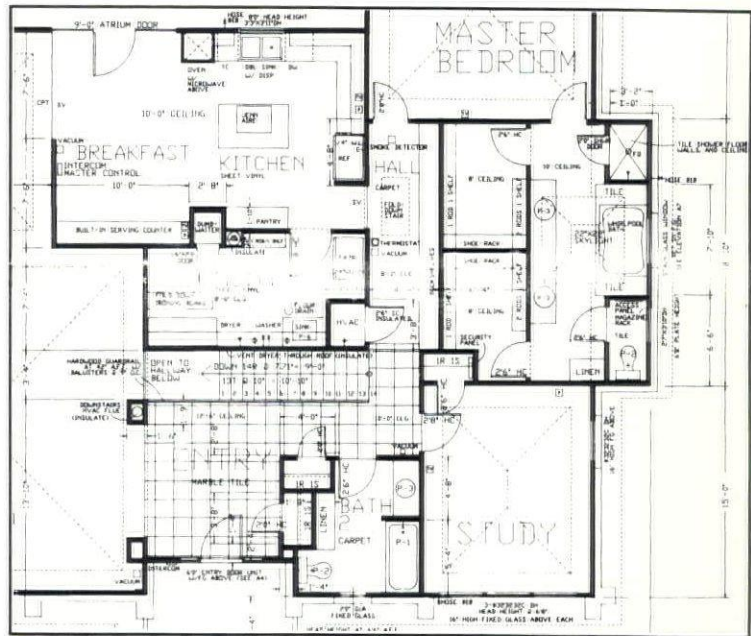
All of the changes in the new edition of the Code will take effect on January 1, 1986 except those in chapters ILHR 60 - Day Care Centers and ILHR 61 - Community-based Residential Facilities. The changes in chapters ILHR 60 and 61 will take effect on September 1, 1985. In response to construction industry requests, the department has adopted an emergency rule to permit the installation of "direct vent sealed combustion chamber appliances" without furnace room enclosure prior to the January 1, 1986 effective date. The emergency rule was published and took effect on August 13, 1985. The emergency rule will remain in effect until the permanent rule becomes effective on January 1.

Any questions regarding the 1986/1987 edition of the Wisconsin Building Code may be directed to the Division of Safety and Buildings at 608/266-3151. ■

CAD SYSTEMS OF WISCONSIN

DRAW ON OUR EXPERIENCE

- WISCONSIN'S LARGEST AUTOCAD DEALER
- AUTOCAD TRAINING CENTER
- PROFESSIONAL STAFF EXPERIENCED IN ARCHITECTURE, ENGINEERING & INTERIOR DESIGN
- CUSTOMIZED MENUS
- TOLL FREE TELEPHONE SUPPORT
- ON SITE REPAIR/REPLACEMENT SERVICE CONTRACTS
- SPONSOR OF LOCAL USERS GROUP
- NATIONAL AUTOCAD COUNCIL MEMBER



AUTOCAD™

- THE WORLD'S MOST POPULAR CAD SOFTWARE WITH OVER 26,000 INSTALLATIONS WORLDWIDE
- PROVIDES MAINFRAME CAD CAPABILITIES AT A FRACTION OF THE COST
- EASY TO LEARN – NO PRIOR COMPUTER EXPERIENCE IS NECESSARY
- CALL US FOR A DEMONSTRATION

MILWAUKEE OFFICE

150 N. SUNNYSLOPE ROAD
SUITE 305
BROOKFIELD, WI 53005
(414) 785-9495

MADISON OFFICE

23 ELLIS POTTER COURT
SUITE 102
MADISON, WI 53711
(608) 271-9493

TOLL-FREE NUMBER 1-800-792-3504 EXT. 523

CAD SYSTEMS OF WISCONSIN

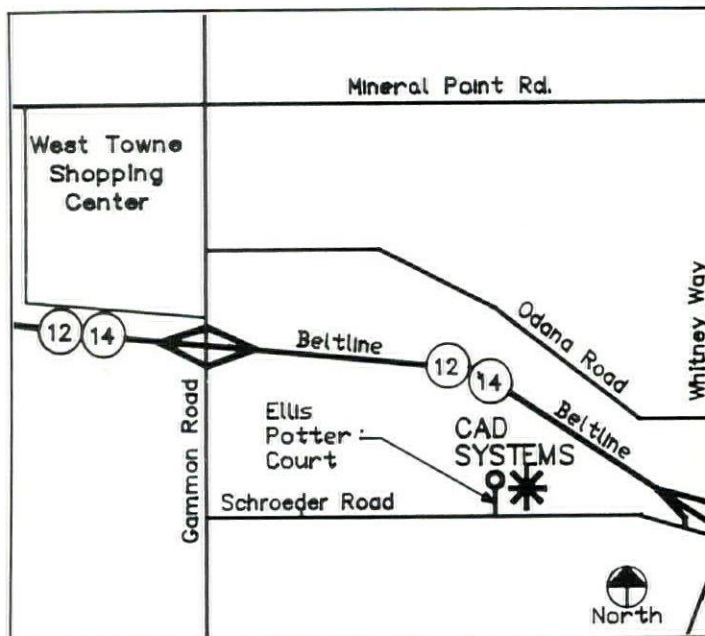
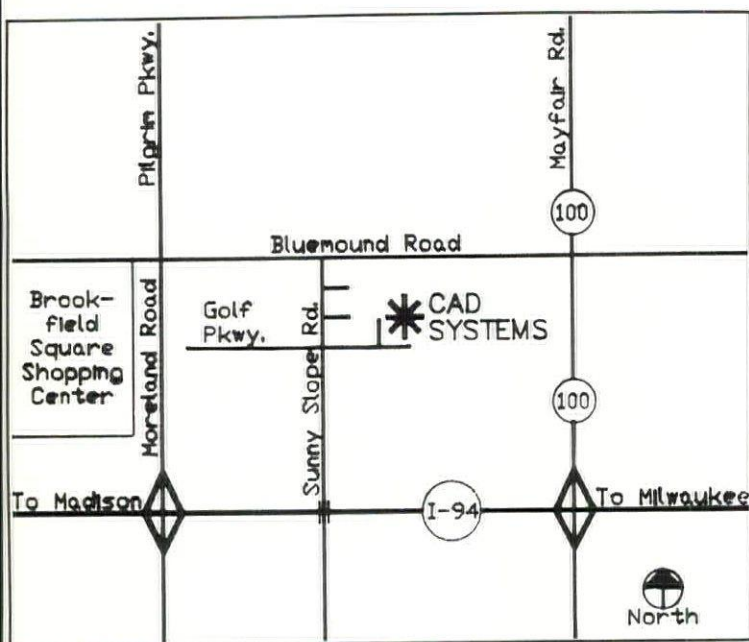
WISCONSIN'S LARGEST AUTOCAD DEALER IS OFFERING FREE CAD SEMINARS

- INTRODUCTION TO AUTOCAD:
THE WORLD'S LEADING
MICROCOMPUTER-BASED CAD
SOFTWARE FOR ARCHITECTS,
ENGINEERS AND DESIGNERS
- DRAWING IN 3-D:
USING YOUR MICROCOMPUTER
TO VISUALIZE AND COMMUNICATE
YOUR DESIGN IN 3-D
- AE/CADD MASTER TEMPLATE:
A DIGITIZER OVERLAY AND SYMBOL
LIBRARY SYSTEM WITH WHICH
COMPLETE SCHEDULES MAY BE
GENERATED AS YOU DRAW
- ADVANCED AUTOCAD:
GENERATING COST ESTIMATES
AND BILLS OF MATERIAL
FROM YOUR DRAWINGS

PLEASE CALL TO MAKE A RESERVATION

OFFERED IN MILWAUKEE
ON FRIDAY, NOVEMBER 8, 1985
FROM 9:00 AM TO 1:00 PM

OFFERED IN MADISON
ON FRIDAY, NOVEMBER 15, 1985
FROM 9:00 AM TO 1:00 PM



MILWAUKEE OFFICE

150 N. SUNNYSLOPE ROAD
SUITE 305
BROOKFIELD, WI 53005
(414) 785-9495

MADISON OFFICE

23 ELLIS POTTER COURT
SUITE 102
MADISON, WI 53711
(608) 271-9493

TOLL-FREE NUMBER 1-800-792-3504 EXT. 523



Silicone Construction Sealants do a better job . . . in more jobs than one.

This versatile family of silicone construction sealants from General Electric is the ultimate in glazing, sealing and weatherproofing.

The Products



SILGLAZE® N

Translucent Glazing Sealant

The advanced technology silicone sealant for channel, stop and butt glazing, providing:

- Translucency
- Primerless adhesion
- 50-year durability
- $\pm 50\%$ joint movement capability
- 6-9 minute tooling time



GESIL® N

General Purpose Weatherproofing Sealant

The advanced technology, high-performance silicone sealant for shop glazing and curtainwall and perimeter sealing applications, delivering:

- A wide range of colors
- Primerless adhesion
- $\pm 50\%$ joint movement capability
- 6-9 minute tooling time
- 50-year durability

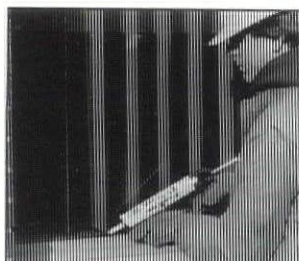


SCS 1000

Contractors Sealant

The general purpose glazing and sealing product with performance and price equal to competitive acetoxy sealants, offering:

- Primerless adhesion to glass and metal
- 3-5 minute tooling time
- $\pm 25\%$ joint movement capability
- Wide range of colors plus translucent



SILPRUF®

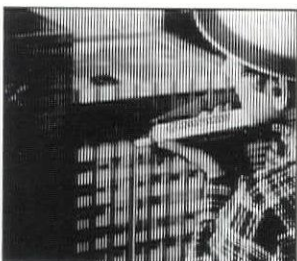
Weatherproofing Sealant

The architect's choice for joints up to an inch or more where long tooling time and the ability to withstand high joint movement are required, delivering:

- Excellent adhesion to a wide range of substrates
- $\pm 50\%$ joint movement capability
- 30 minute tooling time
- A wide range of colors

The Back-Up

When you make us your sealant supplier, you get the benefit of some important extras. Like technical know-how. Local availability. And quick delivery. To help you get the job done right...the first time...every time. For complete product information, contact us today.



SCS 1200

Construction Sealant

The high strength construction sealant of choice for premium structural glazing applications, offering:

- A tensile strength of 450 psi
- 5-7 day cure time
- A wide range of colors, plus translucent
- FDA/USDA status

When performance counts, count on GE Silicones.

S&S SALES CORPORATION
12030 West Silver Spring Road
Milwaukee, WI 53225
(414) 464-8550

AUTHORIZED DISTRIBUTOR
GENERAL  ELECTRIC
SILICONES

GE brings
good things
to life.





We support the following software for Architects and Consulting Engineers:

- **AEPEX** — Timberline project management accounting and bookkeeping.
- **AUTO CAD** — Micro-computer aided drafting packages.
- **MEGA CADD** — 3D Design tool for unlimited perspective, isometric, and orthographic views.
- **PRIMAVERA** — Project management/scheduling software.

Unific Systems provides detailed training and support to help insure our clients complete satisfaction. For more information concerning Unific Systems computer services, contact:

Gregg Plummer

210 N. Bassett St., Madison, WI 53703 • 608-258-7075



Cheney Lifts provide the freedom to get up and down stairways.



The Liberty Wheelchair Lift



The Handi-Lift

THE LIBERTY™ WHEELCHAIR LIFTS enable individuals to ride safely and comfortably on a wide variety of stairways. The Lifts are so versatile they can accommodate top or bottom overruns and even go across intermediate landings.

- Optional space saver rail
- 500 pound load rating
- Mounted to one wall only
- Outdoor installations

THE HANDI-LIFT® Vertical Wheelchair Lift provides safe stairway and building access for people confined to a wheelchair. Feature for feature, it's unsurpassed for safety and versatility.

- Lifting range of 4 to 12 feet is highest in industry
- Provides a full 12 square foot platform
- Adapts to numerous indoor and outdoor applications
- 500 pound load rating . . . optional 750 pound load rating available.

Where a restrictive access is required, you'll find the Handi-Enclosure® unsurpassed for safety and ease of installation.

To find out more about the freedom Cheney Lifts can provide you with, call or write the Cheney Company.

Helping people help themselves

The CHENEY Company

P.O. Box 188, Dept. WA, New Berlin, WI 53151
(414) 782-1100

Look for Cheney Lift products at Mitchell Field and at Midway Airport in Chicago.



twin city testing

OFFERS YOU:

- architectural acoustical analysis
- field sound transmission class rating
- furniture testing
- OSHA noise compliance
- asbestos abatement
- window tests
- curtain wall tests
- thermal conductivity (R-values)
- roofing reviews

Appleton (414) 733-8711

Eau Claire (715) 832-0282

LaCrosse (608) 781-5330

Wausau (715) 359-9463

twin city testing

Computers

Automation Of The Small Office
By Ronald V. Gobbell, AIA

I recall checking my slide rule by hand to see if the thing really was accurate. I even verified my electric calculator the first few times I used it. So is it any wonder that I'm now scaling drawings developed by computer?

While computers are by no means a new concept in our profession, full automation has, until now, been a pipe dream for small firms. Eight-man offices and smaller have tended to look at automated equipment with a wistful eye, believing that they could never pay for such a luxury, first of all, and that probably it would take a computer science genius to punch the right buttons anyway.

Well-founded as those concerns are, our firm has taken the plunge.

Our staff includes four architects, one chemical engineer, one secretary, and three part-time employees. This is a good size for us. We have been larger — at one time we had three more people — but we've had problems whenever we've grown. This was a primary element in our decision to automate. We want to keep well-educated architects doing what they're good at doing, not working through draftsmen. So, while under the pressure to grow, we decided to automate instead of adding personnel.

Two-and-a-half years ago, our inclination was to move in the direction of Computer-Aided Drafting and Designing. This was based on a longstanding interest in the capacity of computers to make that part of our lives simple. It was easy to imagine a computer's function in our profession. Simply by entering a floor plan, we would get doors and finish schedules. Wall

sections would be well underway. Total material take-offs would be readily accessible to interface with up-to-date cost estimates. All this would require about an hour of moving an electronic pen. When desired, we could have a full color rendering complete with the sun setting in the western sky.

We very quickly discovered after eighteen months of research (nothing is that quick) that highly-specialized computer graphics systems are compromised by tying them up with word processing and accounting, relatively simple functions. In fact, buying a complete micro-computer system to handle word processing and accounting needs is much less expensive than buying the software for the big system. So for our purposes, we decided to buy a micro-computer system; and it was installed last spring.

In our office, the micro-computer has made such an impact that the necessity for it and the resulting frustrations are comparable to the telephone and copier. Our primary reason for buying it was word processing, but by choosing a micro-computer, we were able to add accounting and financial management capabilities, as well.

We researched this area extensively and found the purchasing process to be exasperating. There was no way for us to compare systems, for each had its own unique benefits, and without computer experience, we had no way of knowing the true value of all the niceties, the extra capacities that each offered. But a friend gave us this advice: Ninety percent of the functions of leading micro-computers are the same, and those functions are the ones you'll use most of the

time, so if you keep it simple, you won't make a serious mistake.

Following this advice and acting on a self-imposed deadline, we applied the best technical judgement available: The Apple dealer was rude, so we conducted our business with Radio Shack. We purchased a Radio Shack Model II with extra disc drives. In software, we bought Scripsit for word processing, VisiCalc (an electronic spread sheet) for accounting, financial management, cost estimates, and other math functions, and Profile for mailing and filing systems. We also purchased the software to check spelling and have found it little or no value.

Our secretary took one training course on word processing and has taught herself the other necessary programs. She, in turn, has taught the rest of the office how to use the machine.

Now we can't remember how we functioned without the micro-computer. While a lot of improvements have been made in the past nine months, we are still very satisfied with our system.

After we were properly impressed by the capabilities of our micro-computer, and because we were under the pressure of increasing workloads, we were ready to move to the CADD system without the horror that we had initially experienced. Since an incredible amount of time had already been spent researching CADD systems, we applied a bit of the philosophy that we had used in selecting micro-computers: i.e., most of them are the same for most functions. For this purchase, we started researching companies instead of specific systems.

An appropriate procedure for a potential buyer would be, first, to define what capabilities you want, and then to conduct a strong self-analysis of how the system will work into your particular firm. It is critical for a small firm, especially, to know exactly how much time is spent drawing. It may be less time than you think. If you take the total hours spent in pure drawing time and divide it by three (projected efficiency for the CADD system), you should have sixteen hours a day in drawing time. If your firm isn't spending forty-eight hours a day drafting, you will not optimize the potential of a graphics computer.

Next, establish the quality level of your computer by reviewing a broad cross-section of leading companies in the industry. Computer shows such as Systems '83 are excellent sources for obtaining a good cross reference of the general market. Watch as many demos as possible, but don't believe any of them.

Once you've narrowed your choices to a few companies, get hands-on experience (This is a necessity!) and start checking into each company's role in the industry, as well as its role in research and development. Be aware that any system purchased in the next few years will only be sixty to eighty percent complete.

Then educate your banker and contact your minister!

We did not necessarily follow the best procedure in making our choice of systems, but we are happy with the direction we took. We purchased an Intergraph Color System with one work station and a Hewlett-Packard 8-Pen Plotter. It was installed in September.

Training of myself and another architect was very time consuming, but because of our interest in computers, turned out to be a rather pleasant experience. It took less time than we had originally calculated for us to hit our proficiency goals in all the fundamentals. We had decided early on to concentrate on basics, leaving the sizzle until a time at which we were more economically productive. The education of the remaining personnel has been through classes and as much hands-on, real project experience as is practical. As a result, it is our policy that all drawings produced by our office (except for schematic sketches or previously initiated projects) are generated on the computer. To date, several projects have been completed using our graphics system.

Since we tried to anticipate the worst, the real shocks have come not in how the system works but in how frequently it is not in use. We've had some equipment problems, but our biggest problem has been in the area of management. The concept of everyone pitching in at the end to finish a project doesn't work with one station. If several projects are due at once, again, management becomes a key factor. These management concerns were an aspect that we didn't properly evaluate before making our plunge.

Another aspect that we did count on, but which is still painful, is the ongoing cost. Maintenance and office modifications are difficult enough. But the purchaser of a CADD system must be prepared to make continuing hardware and software improvements.

We have found the system to be good at drawings from the preliminary stage on. We're having to adapt new drafting techniques to reflect the computer's capabilities, rather than applying the techniques that are easier on the drafter. Quality and precision have improved immeasurably. But in order to make full use of the system's abilities, all engineering packages should be done on computer as well.

As a design tool, the CADD system works very well in the design development stage. We frequently use the computer to modify layouts, obtain basic data, i.e. square footage, and to analyze alternate directions. It is simple to drag various components of design from one area to another, and at any point print the alternatives with ink, hardline quality. While our computer has 3-D capabilities — and that's an enjoyable way to spend a Saturday afternoon — we are merely in the formative process of developing the ability to use this extraordinary technique as a design tool.

On the support side, we have found that the vendors of both micro-computers and CADD systems don't understand architects any more than we understand computers. The value of that unique individual who understands his product and is sympathetic to our circumstances cannot be minimized. If he can be located prior to purchasing, chances for success are much enhanced.

It should be noted that by the date of this publication, our firm will have merged with a 140-man engineer-

ing firm. While this decision was predicated on many factors, the fact that the engineering firm had an Intergraph system, and the possibility of integrating engineering and architectural design on the computer played a definite role in our decision.

Automation is the way to go. Micro-computers are essential to even the smallest architectural firm. Graphic systems will be essential. The decision to move toward full automation is painful and risky, but I must say that after six months of high monthly payments, I feel our firm made the right decision . . . I think.

Ronald V. Gobbell, AIA, is President of Gobbell-Hays and Associates, Inc., Nashville. Previously, he practiced in Boston, Teheran, Iran and San Antonio. He is serving on the Mayor's Committee for Community Excellence. ■



Ford Leasing Development Company

Bally

Health & Tennis Corporation of America, Inc.

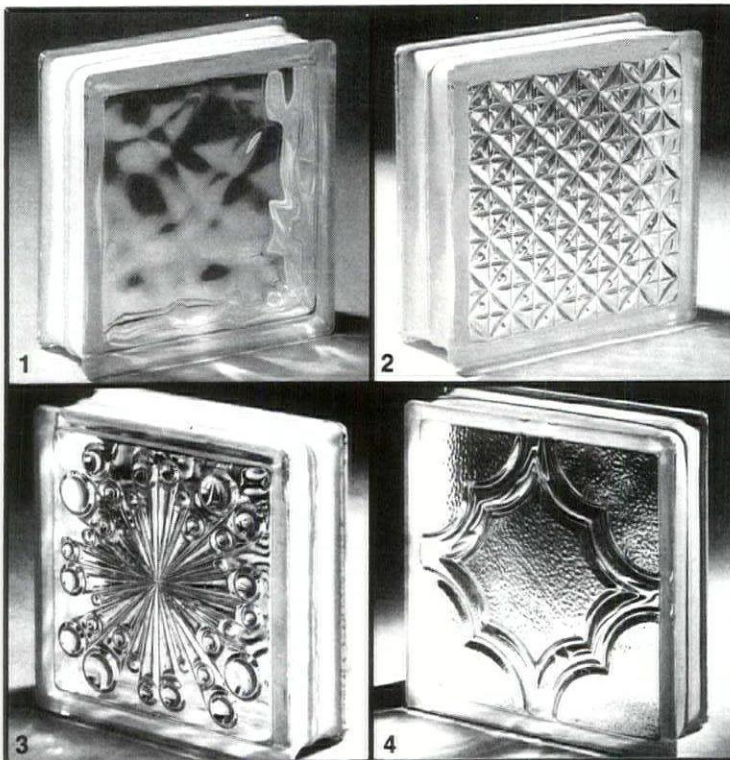


VIC TANNY International OF WISCONSIN, INC.

Corporate Development's list of clients says a great deal about our history. From design through financing Corporate Development possesses the knowledge and experience you need. Please give us a call to discuss the design, construction and financing for your future facility.

CORPORATE DEVELOPMENT

P.O. BOX 27283 • MILWAUKEE, WI 53227 • 414-546-4000
DESIGNERS • DEVELOPERS • CONTRACTORS



ABC Supply Co., Inc.
815 S. Pioneer Rd.
Fond du Lac, WI 54935
414-921-1222

Milwaukee Glass Block
2300 W. Lincoln Ave.
Milwaukee, WI 53215
414-647-2300

WECK®

Glass Blocks

Quality Glass Products since 1900

We carry a wide variety of designs. In addition to our standard glass block selection (partial sampling shown in pictures 1 & 2), we also offer a selection of European Design glass blocks (partial sampling shown in pictures 3 & 4). All of our glass blocks are available in clear glass and some are also available in goldtone.

Institutional

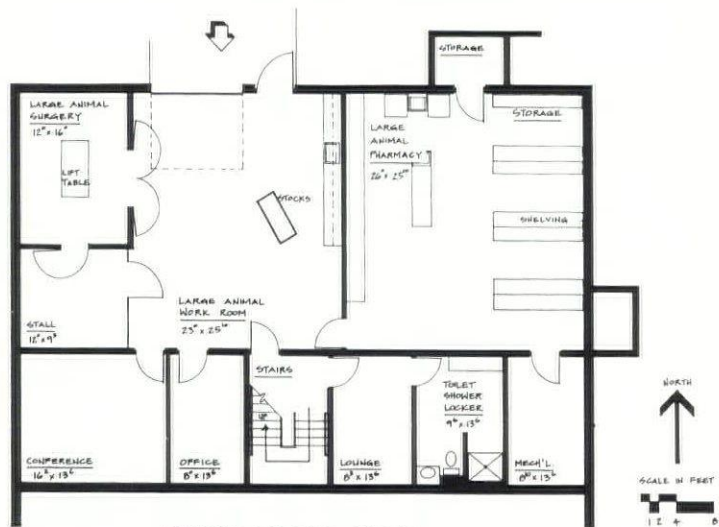
Project: Pewaukee Veterinary Service
Architect: E. John Knapp, Madison, Wisconsin
General Contractor: Corporate Development Corporation

Twin brothers in veterinary medicine had identical ideas about what they wanted in an animal hospital. They chose a sloping south-to-north site. One doctor treats large animals on the lower level. His brother operates a small animal clinic on the second level. This building received the Veterinary Hospital-of-the-Year award for 1984.

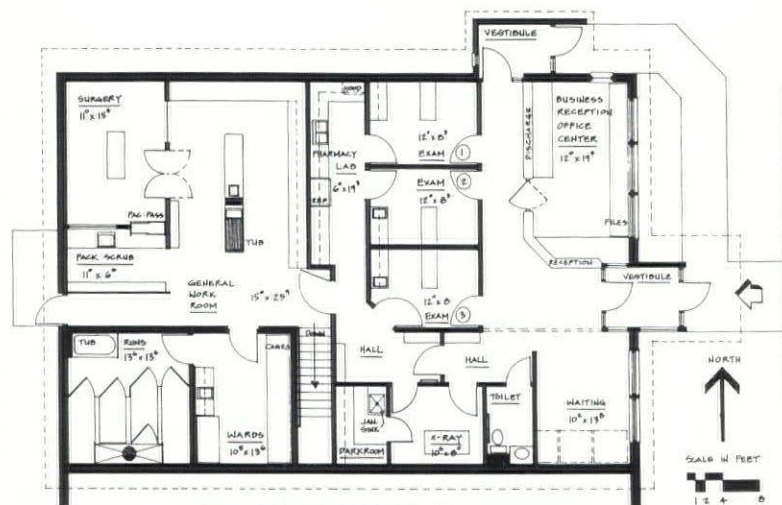
Perhaps the single most important feature of the building's design is the three part solar system. First-passive solar, second-solar hot water, and third-direct heat gain in large lobby.

A simple solar attic is lined with several layers of drywall. Black painted walls and floor absorb direct heat. Attic temperatures reach 120 to 130 degrees and the air is moved through a standard air heating and ventilating system. When attic temperature falls below 75 degrees, a heat pump back-up turns on. When air is below freezing, pump switches to electric heat coils located in ducts.

The lower level of hospital is earth bermed. Owners feel this varied system has cut their electric bill in half. ■



FIRST FLOOR PLAN



SECOND FLOOR PLAN

FROM ANY ANGLE...

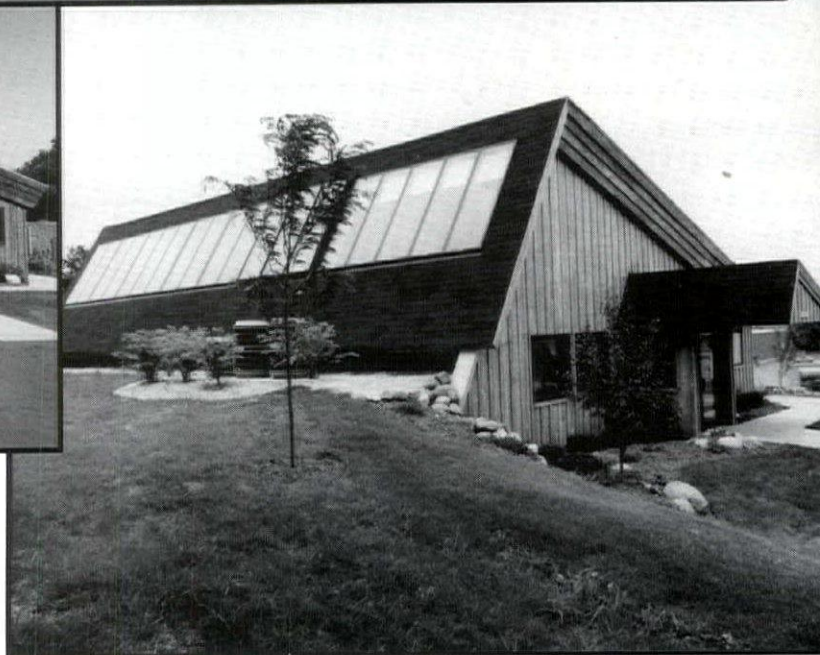
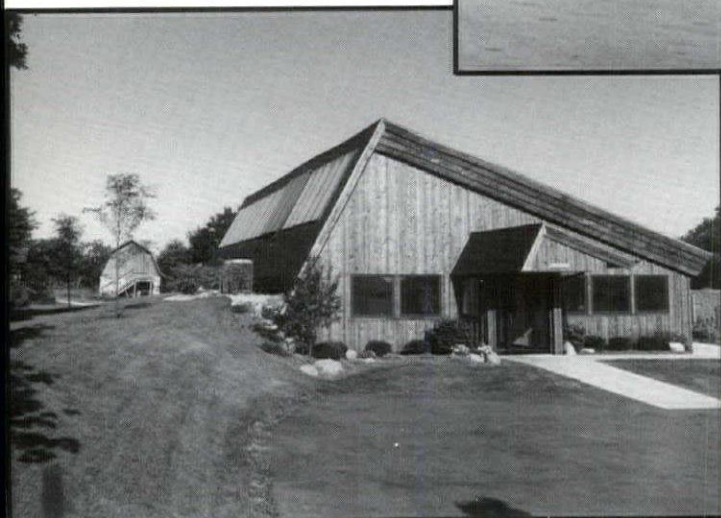


Photo Credit
Jeffrey J. Schuett, DVM
Pewaukee Veterinary Service

... We're proud to have participated in the construction of this state-of-the-art animal clinic. For your next project, call on those who stand for quality workmanship and products.

Bend Industries, Inc.
P.O. Box 178
West Bend, WI 53095
414-273-2702
*Architectural concrete
block thermal storage walls*

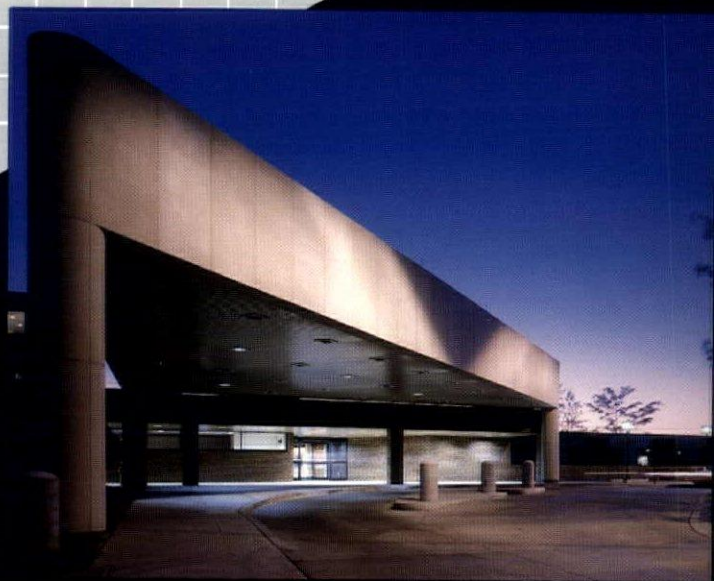
Conditioned Air Design, Inc.
11104 W. Becher St.
West Allis, WI 53227
414-546-2020
*Heating, air conditioning
and solar system*

Custom Components C
1800 21st St.
Racine, WI 53403
414-632-8840
Wood roof trusses

Roman Electric Co.
640 S. 70th St.
Milwaukee, WI 53214
414-771-5400
Electrical Contractor

Ver Halen, Inc.
4700 N. 124th St.
Milwaukee, WI 53225
1-800-242-6212
*Pella Windows and sloped
glazing units*

Constructors for



Today, Tomorrow



... and the Future

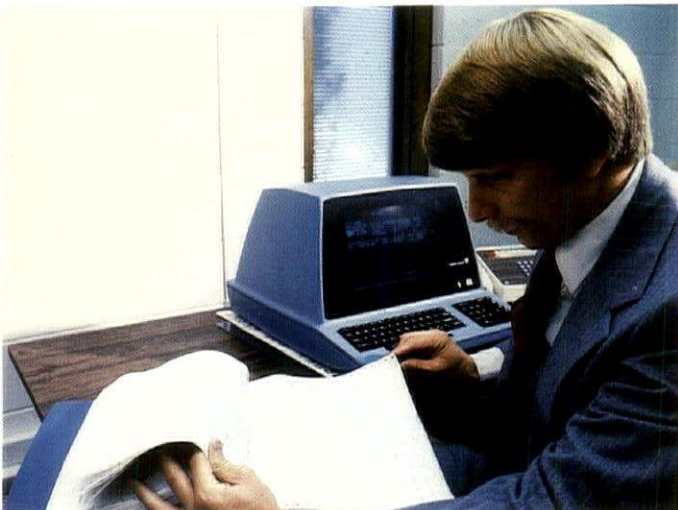
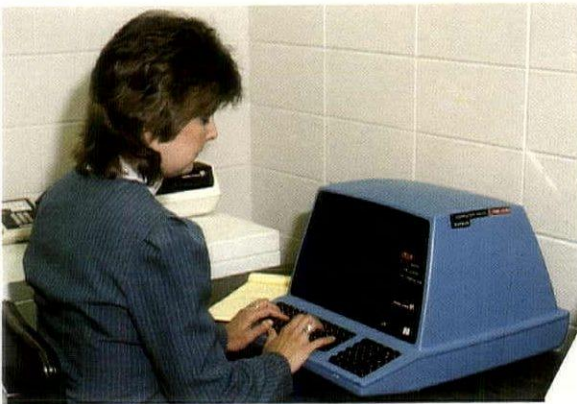
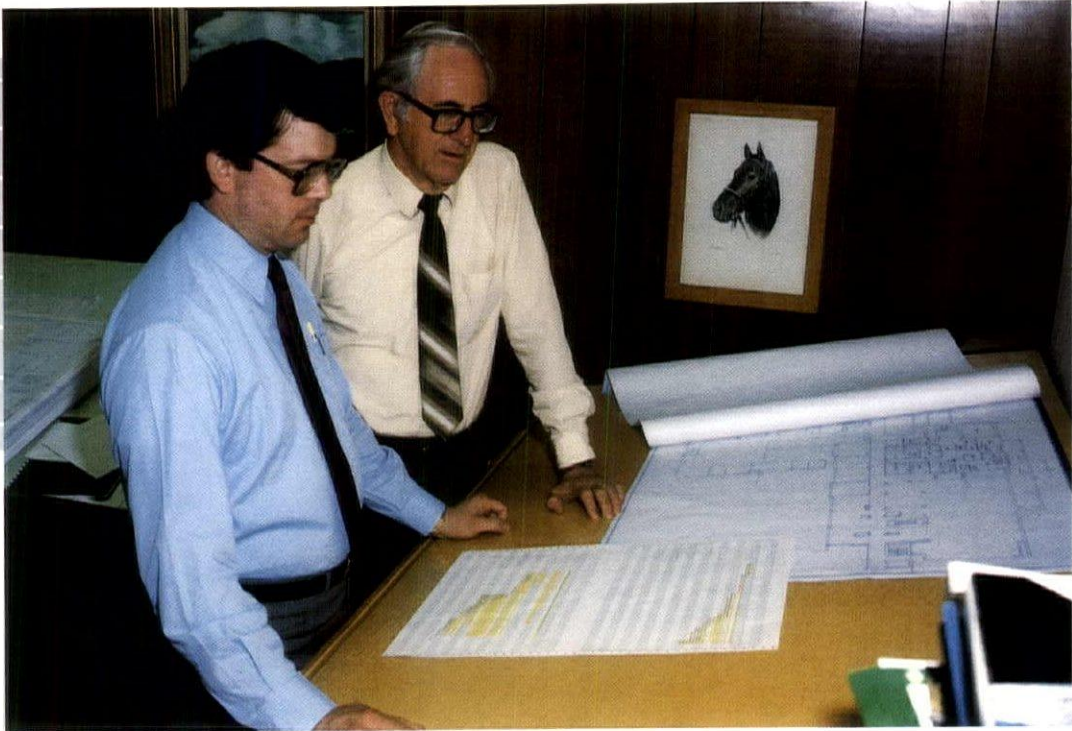


Milwaukee Blood Center

MICHAEL W. LABONTÉ - Vice President, Construction. Joined the company in 1972 following graduation from Milwaukee School of Engineering with a B.S. Degree in Architectural and Building Construction Engineering. Assistant Project Superintendent 1972-1973; Project Superintendent 1973-1974; Estimator/Project Manager 1974-1983; Project Manager 1983-1984. Named Vice President, Construction 1984.



Accurate Costing . . . Detailed Planning & Scheduling . . . Financial Control



A state of the art constructor, C. G. Schmidt has kept pace with technical changes and employs the latest management techniques and systems for project development and control.

Computers store a current data base of material and labor costs essential for estimating and budget planning.

Experienced estimators translate project concepts into basic elements of area, volume, height, structural detail, material and finishes.

Budgets are developed and verified by the use of sophisticated parameter estimating techniques. The latest computer programming methods provide rapid cash flow analysis and produce verifiable management systems that are important for accurate costing and detailed project planning and scheduling.

This blending of high technology mathematical models with human experience provides the ultimate combination for success.

Continuous monitoring of the computerized control systems provides instant information to both C. G. Schmidt and you. Budget expenditures and project schedule status are available for constant evaluation at all times enabling you to know how and when your money is being spent.

Our Construction Service Capability



Enderis Hall-UWM



To maintain its position as an industry leader, C. G. Schmidt provides a broad range of construction services to fulfill your needs. These include:

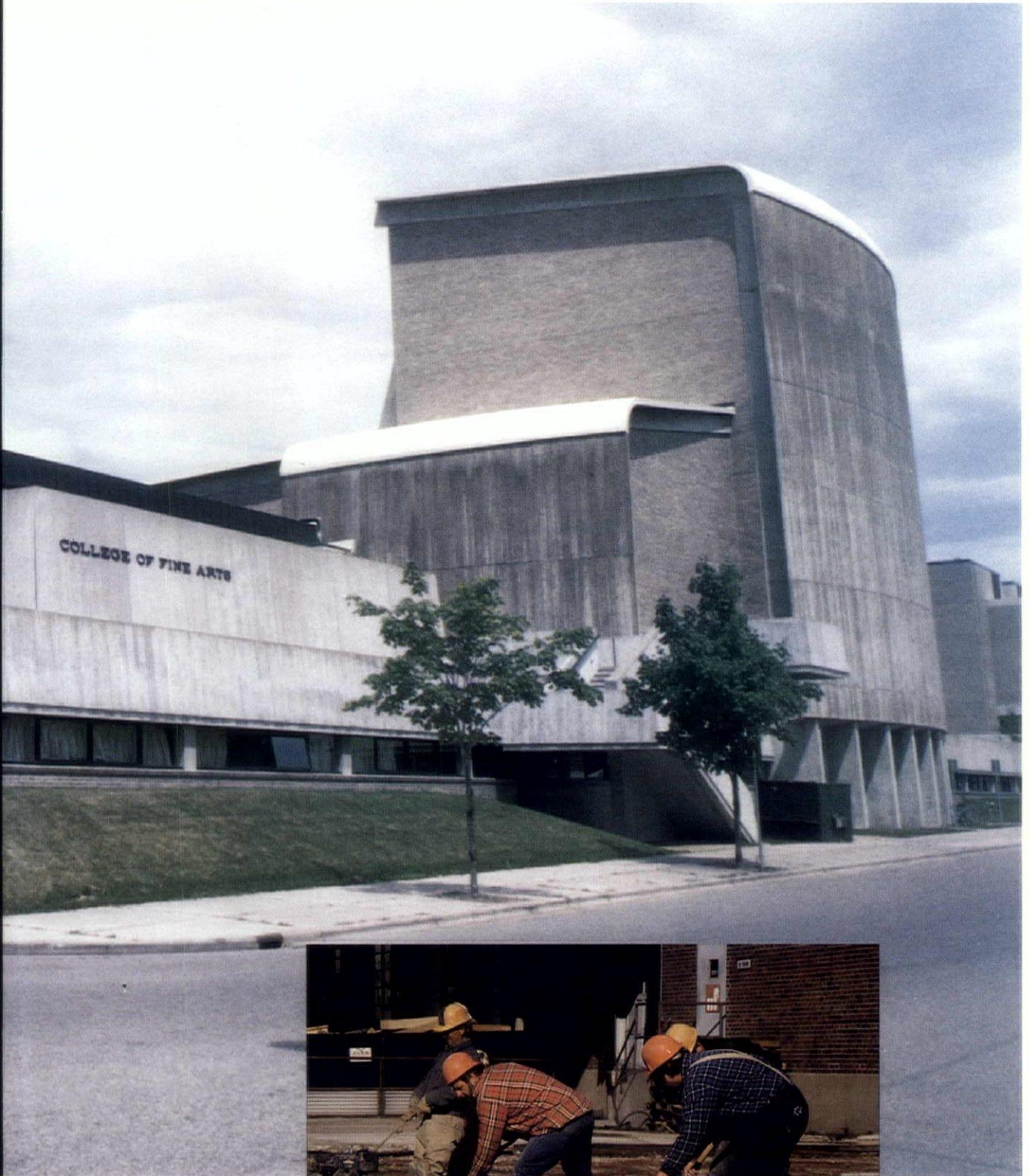
- Professional advice and recommendations to help analyze your facility needs.
- Coordination of planning and design teams based on project requirements.
- Assistance in site selection and project constructability.
- Computer assisted estimating, cost control and scheduling.
- Aid in the selection of building systems, or type, including initial budget studies.
- Assistance in securing conventional financing, both construction loans and permanent funding.
- Assistance in obtaining industrial revenue bonds, tax incremental financing, or other low interest loan possibilities.
- Establish a working team relationship with emphasis on owner, architect, and contractor cooperation.

The C. G. Schmidt approach permits us to perform as a single source for your entire project. This reduces contract administration costs, focuses responsibility for simplicity of management and provides complete accountability.





UW-Stevens Point College of Fine Arts



Experience, Size & Versatility — For Any Project



Good Samaritan Medical Center



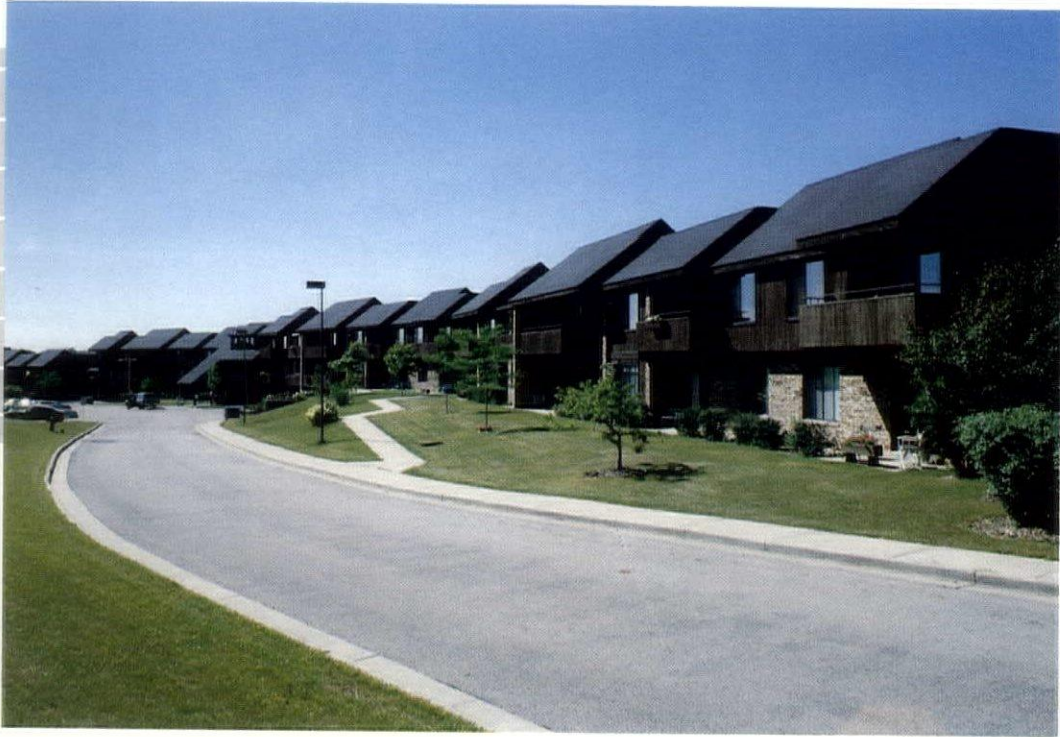
Our long record of success at C. G. Schmidt is represented by the wide variety and types of projects we have completed for satisfied clients. Among them:

- A contemporary-styled fine arts center on the campus of the University of Wisconsin-Stevens Point, featuring cast-in-place concrete structural members and 60 foot high thin exterior walls of various shapes and sizes.
- Rapid construction of a 78,000 square foot office and warehouse distribution facility in Menomonee Falls, WI., designed, built and operational in only five months.
- Major remodeling and additions to several Milwaukee area hospitals with no disruption in their daily operations and a minimum of noise disturbance.
- Construction of a \$4.2 million regional headquarters office building for Allstate Insurance Company.
- A 19 story cast-in-place, brick facade, elderly housing facility requiring custom designed gang forms and skilled application of a tower crane.
- Construction of a multi-stage senior citizen living center comprising independent living, residential care, and skilled nursing facilities.
- A two-phase \$2.1 million multi-story building renovation for the Blood Center of Southeastern Wisconsin, and its conversion into process laboratories and contemporary office space.



Milwaukee Blood Center

Versatile Contractual Agreements & Project Administration



Luther Manor



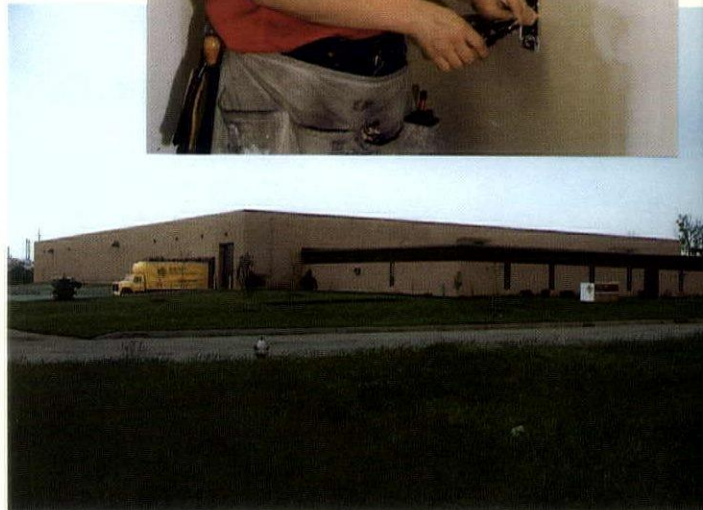
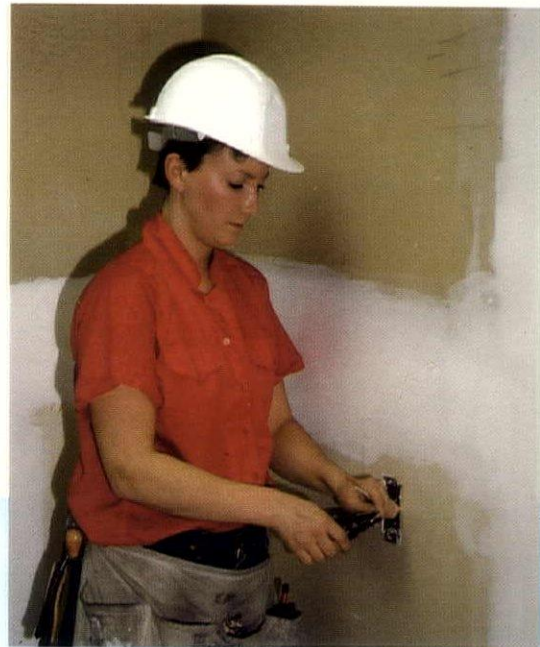
We offer you a wide variety of contractual choices and working relationships to accomplish project goals and objectives. These are:

- **Negotiated General Contract:** Together, we agree on a mutually acceptable price for the total range of services required.
- **Construction Management:** We serve as your independent agent and advisor, managing and supervising the entire project on your behalf.
- **Lump Sum General Contract:** We perform at a fixed price to cover the total cost of the project.
- **Cost Plus:** You pay only for the actual cost of the work performed, plus an agreed upon fee.
- **Design/Build:** Under a single contract, we provide all of the services needed for your project. These include architectural, engineering and construction services.

- **Finance and Lease-back:** Should you choose to not own your own facility, we can help you develop methods to build and finance on a lease-back basis.

We will help you choose the most suitable approach to satisfy your building needs. We will work with your architect or engineering consultant, or help you choose qualified firms for the project you're planning. And we offer cost-of-construction input from the beginning of the design process through completed plans and specifications.

Although a large part of our work is the result of successful competitive bidding, a substantial portion is done on a negotiated basis, much of it coming from repeat clients and referrals.



Butler Paper Co.

Technical Services

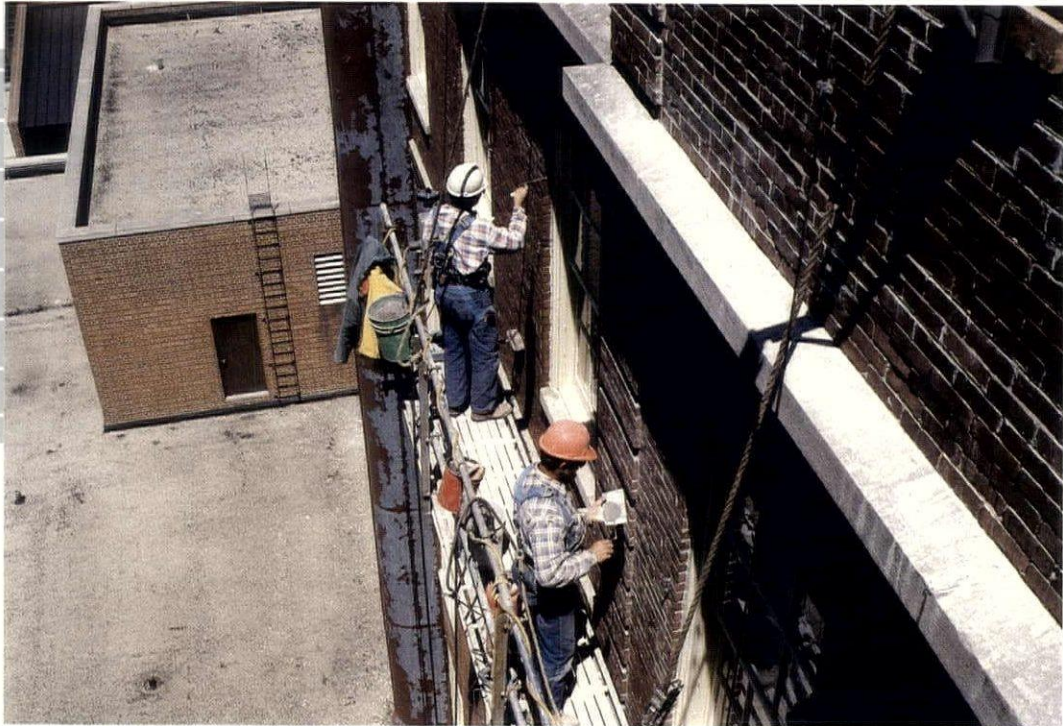


The dynamics of modern industry — commercial, industrial, or institutional — have made tremendous demands on the constructor. Updating operations in existing structures; reallocation of space to accommodate new equipment; expansion — both large and small — these and more are well within the scope of expertise of C. G. Schmidt's Technical Services Group.

Skilled estimating, project management and field supervision personnel are available to meet your needs. Renovation, remodeling, and repair are the forte of this highly experienced group.

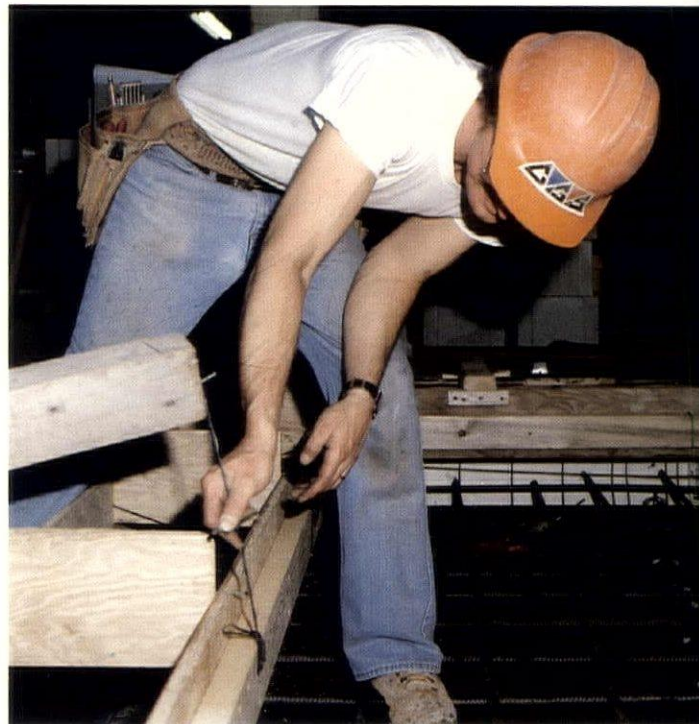
Of great importance is the non-disruption of activities. Your work continues while we perform our tasks. It is this sensitivity to your needs that makes C. G. Schmidt stand above all others.

A genuine testimonial for C. G. Schmidt's dedication to quality and service is that a significant portion of this work is accomplished for repeat customers.



The following services and capabilities are available to you:

- Floor resurfacing, removal and replacement
- Wall removal and relocation, including roof shoring
- Machine pits, bases and foundations of all types.
- Window replacement or closure
- Loading docks, retaining walls, ramps and drives
- Waterproofing
- Elevator pits and shafts
- Office remodeling
- Wall repairs
- Sidewalk and curb replacement
- New footings, underpinning settled buildings
- Hollow sidewalk replacement and repair
- Steps, stairways and railings
- Floor reinforcement.
- Offices, lunchrooms, washroom facilities
- Parking lots
- Clean room installation
- Building additions
- Flammable and hazardous material enclosures
- Handicap access
- Demolition



Performance

Quality

Service

When you choose C. G. Schmidt as your constructor, you are getting a firm dedicated, skilled and experienced in the art of construction. A tradition of 65 years of customer satisfaction in the areas of health care, institutional, educational, business, commercial, and industrial construction substantiates this claim.

The primary consideration in all of our efforts is you. Individual attention to you the customer, regardless of the size of the project, is paramount. You can rely on us with confidence knowing we can best meet your construction needs.

A deep pride of workmanship, meticulous attention to detail, time honored performance, quality construction, customer service . . . these are the qualities that have earned C. G. Schmidt its position as a leader in the construction industry.

We'd be pleased to submit a proposal for your construction needs.



"We at the Fidelity and Deposit Company have found your organization to be of superior quality in management, production efficiency and financial strength. We find admirable your company's systematic approach to the needs of the construction marketplace."

"We feel it unnecessary and imprudent to set arbitrary limits to your surety needs, as we have always addressed your bond requests without problem. I am confident that evaluating your approach to the marketplace, we can provide you suretyship on projects that you so desire."

Fidelity and Deposit Company of Maryland

"I am writing to express my gratitude to you and the C. G. Schmidt Company for the high quality of work performed for Luther Manor over the past 13 years."

United Lutheran Program for the Aging, Inc.

"My purpose in writing you is to commend you for the choice of people who you have sent to get our work done. We are very happy with the performance of everyone from your project manager to the craftsmen. I can't find words to say how much we appreciate their efforts, ideas, ingenuity and personal interest in accomplishing work here — often times in the face of almost impossible schedules and working conditions."

Universal Foods Corporation

"From the first \$1.5 million project in 1976 through subsequent work to date, The Blood Center has appreciated your cost consciousness, flexibility, and high quality of the final product."

The Blood Center

"The superior manner in which your company performed allowed us to continue to do our job during the process and gave us an excellent facility in which to continue serving our patients with dignity."

West Allis Memorial Hospital

"We at Butler Paper Company would like to give our sincere thanks to C. G. Schmidt, Inc. for their outstanding performance in the design and construction of our new sales and distribution facility in Menomonee Falls."

Butler Paper Company

"Our building additions and installations have been completed on time, well within budget. In our corporation, which does not have an engineering staff, we depend on quality companies such as yours, to service us."

Alton Packaging Corporation

"I thought you would be particularly interested in the group's satisfaction with the fact that we had gone through a million dollar remodeling job without ever losing an hour of work and with no major disruptions in our operation. That is something for which you and your company can be very proud of."

Amity Leather Products Company



C. G. SCHMIDT, INC.

Contractors, Construction Managers Since 1920

**4199 N. Richards St.
P.O. Box 12485
Milwaukee, Wisconsin 53212
(414) 332-1177**

Institutional

Project: Good Samaritan Medical Center
Architect: PKR Architects, Milwaukee, Wisconsin
Owner: Good Samaritan Hospital
Construction Manager: C.G. Schmidt, Inc.

Good Samaritan Medical Center is the consolidation of the former Lutheran and Deaconess hospitals, which were located within blocks of each other. The task of the architects was to "meld in" ancillary facilities of the two hospitals and to create a new image for the surviving camps.

The exterior of the building is pre-cast material in an attempt to match the existing building. A contemporary atrium and lobby was designed to make the entrance function as a visible focal point and fulfill the desire to create a new image for the medical center. ■

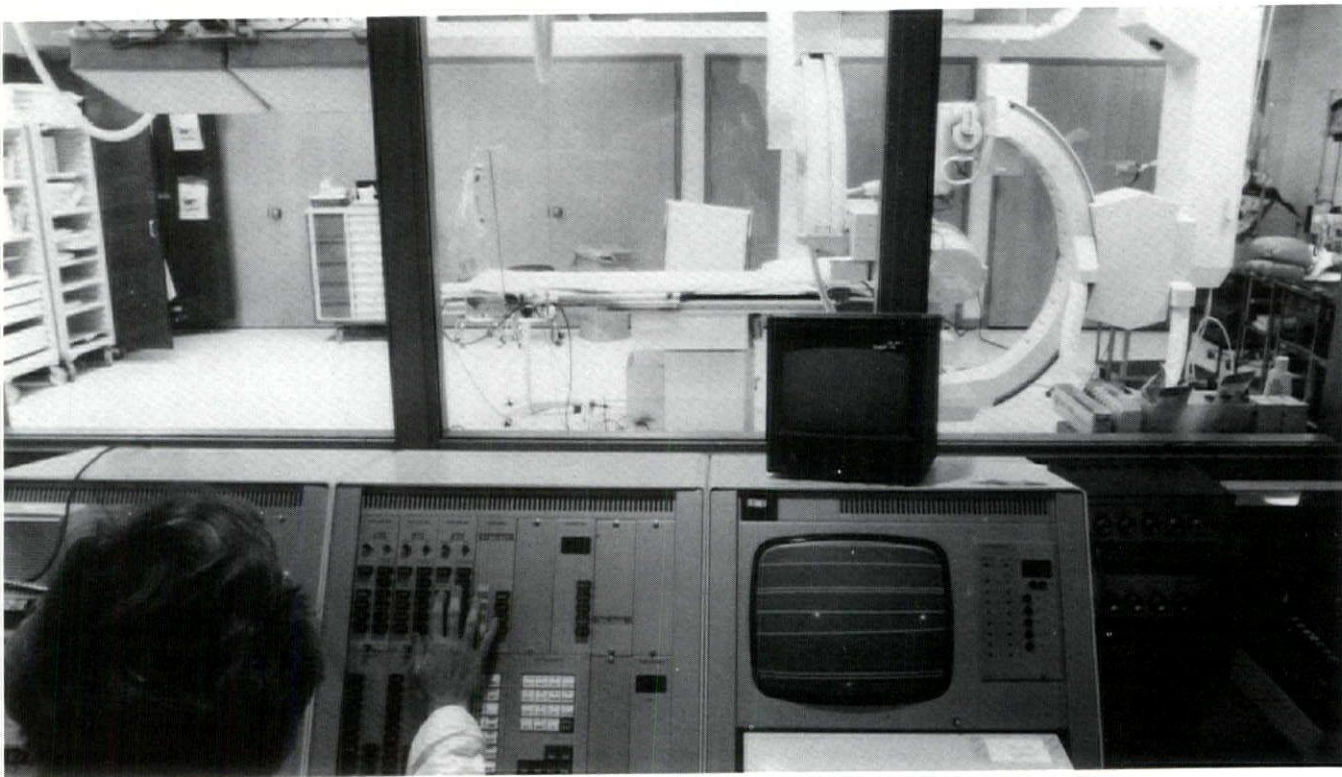
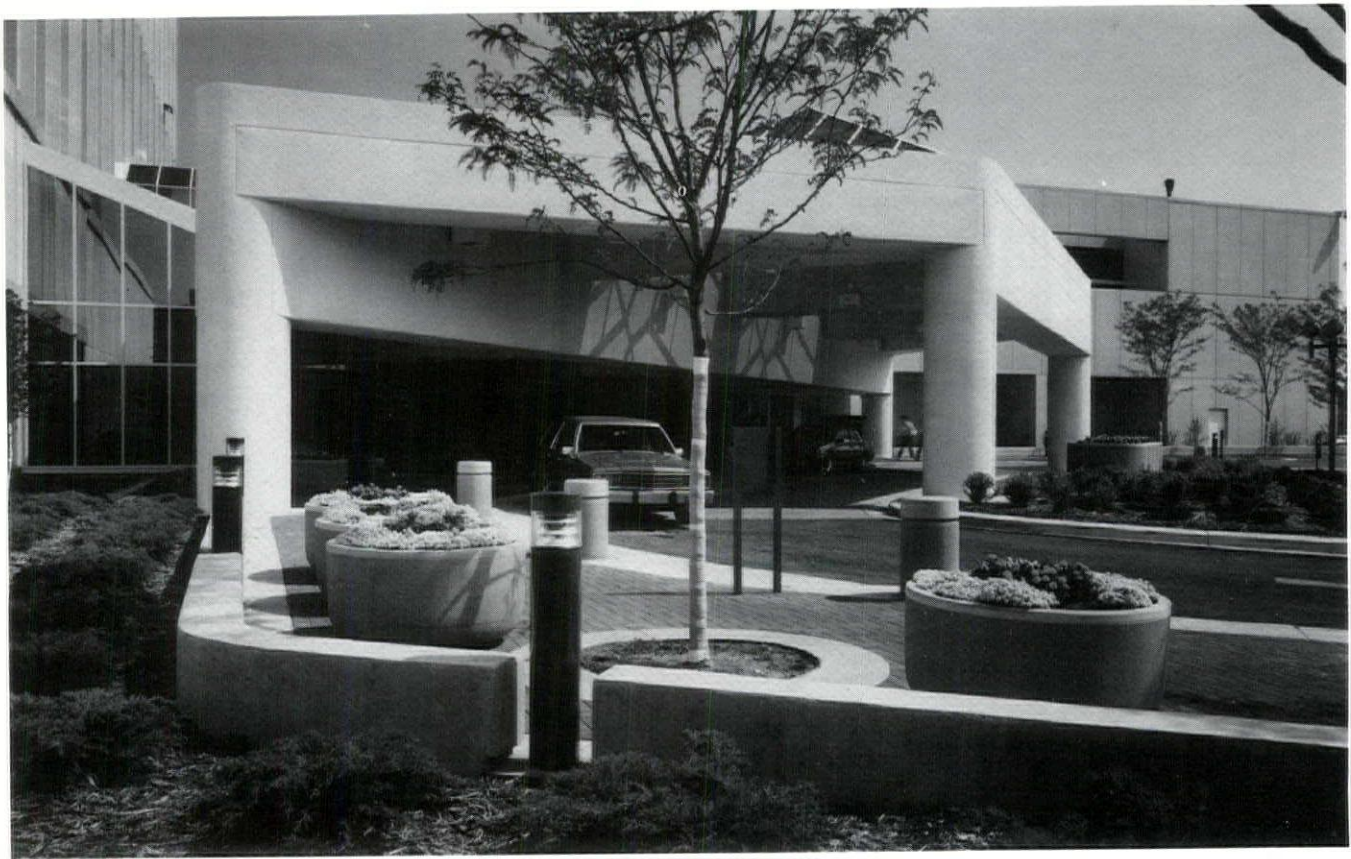
The emergency and outpatient departments were located on the first floor for easy access. The two departments were also designed to interact with each other as patient demand changes, with separate ambulatory and ambulance entrances. The triage area allows visible and voice contact with both and serves as a control point.

The second level is dedicated to surgery. The heart rooms and surgical suites are considerably larger than other hospitals. This allows for more technical equipment and personnel needed for today's surgery. A glass enclosed court with trees and shrubbery, just outside the surgery entrance affords the doctors and staff a visual luxury not allowed in most surgical environments.

ICU, CCU and Cardiac Catheterization departments were placed on the third level to tie into immediate care telemetry in an existing building. The three ICU suites extend off a central core which functions as the heart of this critical care area. This allowed each patient room to have windows and created a central location for a minor operating room and medical support equipment.



Photos Continued on Page 18



Quietly, for over 120 Years Downey Has Built A Great Reputation.



GOOD SAMARITAN MEDICAL CENTER COMPLEX
Congratulations! It has been our pleasure to install the total
mechanical system at the new Complex.

We've been the single source for mechanical contracting on Milwaukee's landmark projects — MGIC Plaza, Froedtert Hospital, NML Plaza, The Henry Reuss Federal Plaza and the Metropolitan Milwaukee Sewerage District program — just to name a few.

From initial design and project engineering through final systems programmed maintenance — contract with **DOWNEY** for total mechanical service. Your project will be carefully planned and fitted to your exact needs, on time and within budget.

- Process and power piping
- Heating, ventilating, air conditioning
- Plumbing
- Fire protection systems
- Dust collection systems
- Customized metal fabrication
- Mechanical maintenance and service

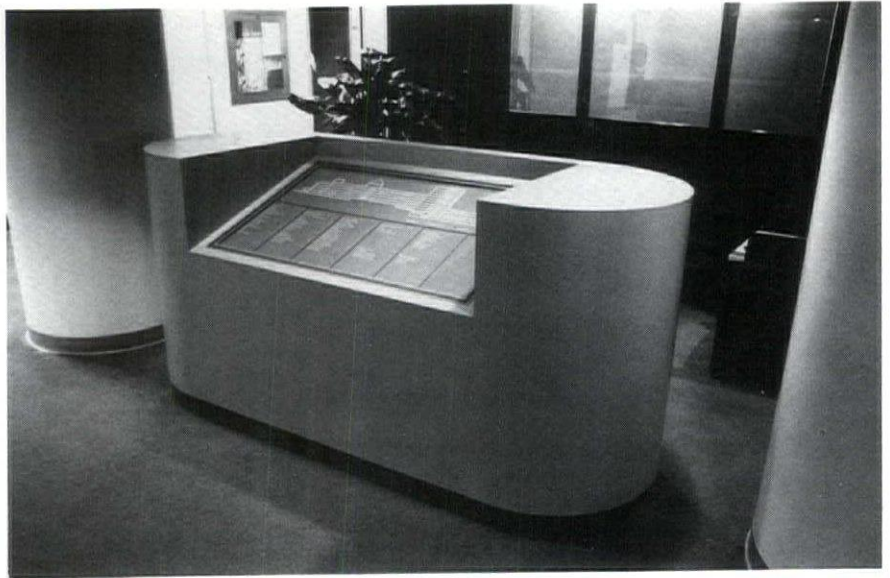


DOWNEY INC.

Mechanical Contractors/Engineers

a tradition of quality . . . since 1863

*A job worth doing
is worth doing completely.*



Good Samaritan Hospital, Milwaukee, WI/ 446 nonilluminated directory with custom base.



ASI Sign Systems

1234 North 62nd Street

P.O. Box 13555

Milwaukee, WI 53213-0555

Telephone 414/257-2000

(formerly Derse Technical Signage)

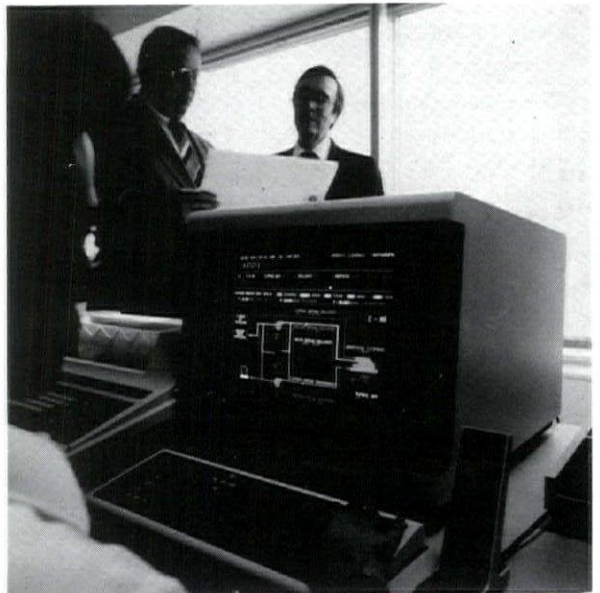
Johnson Controls Gives The Good Samaritan Medical Center Total Building Control.

Building Automation by Johnson Controls is one of the most versatile and successful building management tools today. Our Building Automation Systems use micro-processor technology to unify HVAC and other building functions into one, simplified control system.

Our system provides you with computer-based controls for:

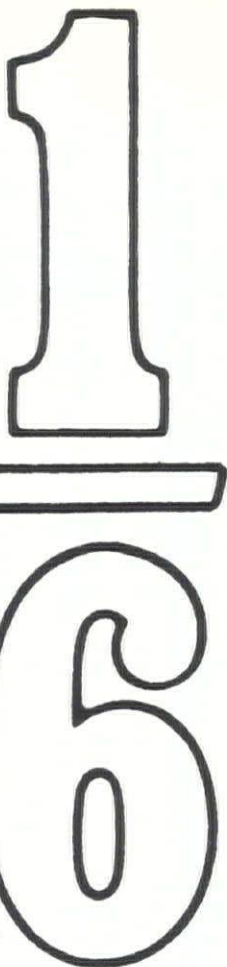
- Energy management
- Firesafety
- Security
- Lighting
- Communications
- Scheduled maintenance

**JOHNSON
CONTROLS**
We put you in total control



Johnson Controls, Inc.
4285 N. Port Washington Rd.
Milwaukee, WI 53212
Tel. 414/961-2600

IF YOU'RE
AN
ADVERTISER
WHO NEEDS
A LITTLE
SPACE
LIKE
THIS
ONE-SIXTH
PAGE,
CALL
OUR
OFFICE
TODAY.
YOU'LL
FIND OUT
YOU
DON'T
HAVE TO
SPEND
A LOT
TO REACH
THE
PEOPLE
WHO
DESIGN
A LOT.
(608) 257-8477



CHUTE! I should have specified Midland.

Only Midland is U.L. Approved for both drywall and masonry.

A little known fact is that other chute manufacturers can apply the "B label" only when the door is intended for use in a masonry wall. Since U.L. ratings have to do with openings in particular types of walls, the B label on a door is meaningless if the door is installed in a type of wall other than that for which the door has been tested. Midland can apply the label for both dry wall and masonry situations because they manufacture their door in accord with U.L. "Follow-Up Service Procedure R6855". As of February 1985 Midland was the only manufacturer doing this.

This is just one example of how Midland has established itself as a leader in the chute industry. It's also a good reason to specify them. You can have confidence in a company that strives to be first in safety and quality.



JOHN BUHLER COMPANY
1331 N. 29TH STREET
MILWAUKEE, WISCONSIN 53208
414-334-9157

WE STOCK
TOILET PARTITIONS
BATHROOM ACCESSORIES
GRAB BARS SKYLIGHTS

VER HALEN

Distributors Of



- Sunrooms
- Skylights
- Patio Doors
- Energy Tight Windows
- Window Replacements

Ver Halen, Inc. is proud to have supplied the Pella Windows and Skylights for the Pewaukee Veterinary Clinic. We will also be providing Pella Replacement Windows for the Good Samaritan Medical Center.

VER HALEN INC.

Madison 800/362-6601 Milwaukee 800/242-6212 Green Bay 800/242-1008 Racine 800/472-8686



Joan Blackburn Concepts in Art

We are trained professionals working expressly for Architects and Designers to provide the expertise in art concepts for any special space within any budget.

Some major projects in the area:

- Parker Pen International, Janesville, WI
- Jackson Clinic, Madison, WI
- Loyola Study for the Humanities, Chicago, IL
- St. Mary's Hospital, Green Bay, WI
- Rockford Memorial Hospital, Rockford, IL
- Wisconsin Bar Assn., Madison, WI
- Cuna Mutual, Madison, WI

Joan Blackburn Concepts in Art
2605 Kennedy Rd.
Janesville, WI 53545

Janesville
608-756-0333

Madison
608-251-5663



Distributors of:



Serving Southern Wisconsin Architectural Needs For 80 Years.

Brick — Block — Pavers — Stone

**2840 UNIVERSITY AVENUE
MADISON, WI 53705
(608) 238-2636**

CONGRATULATIONS! MEQUON MEDICAL PARK

STEVENS CONSTRUCTION CORP. GENERAL CONTRACTORS

4001 W. Mill Road
(NEW Location)
Milwaukee, WI 53209
414/358-3505

*Commercial
Industrial
Residential*

STEVENS CONSTRUCTION CORP. OFFICES:

Madison, WI	608/233-3100
Atlanta, GA	404/426-4215
St. Petersburg, FL	813/381-5556

STOP WASTING ENERGY!

Control POOL ROOM Humidity

Finally! A sensible way to control Pool Room Humidity while reducing operating costs.

DESERT AIRE DOES IT ALL!

- Reduces Operating Costs Up to 75%
- Controls Damaging Humidity while Heating Pool Room
- Saves Money
- Uses No Gas or Oil
- Models to Suit All Needs

Don't throw Money Out the Window!



**DESERT AIRE
CORP.**

Dept. DA
5633 W. Florist
Milwaukee, WI 53218
1-414-462-4143



FOR A QUALITY PRODUCT AT A REASONABLE PRICE
SPECIFY **INTERNATIONAL AMERICAN CERAMICS**

BUTLER TILE SALES

P.O. Box 26333
Milwaukee, WI 53226

☐ SEND FREE IAC **DURAPAVERS** SAMPLES WITH
THE TWENTY-FIVE YEAR WEAR GUARANTEE

NAME _____

TITLE _____

COMPANY _____

ADDRESS _____

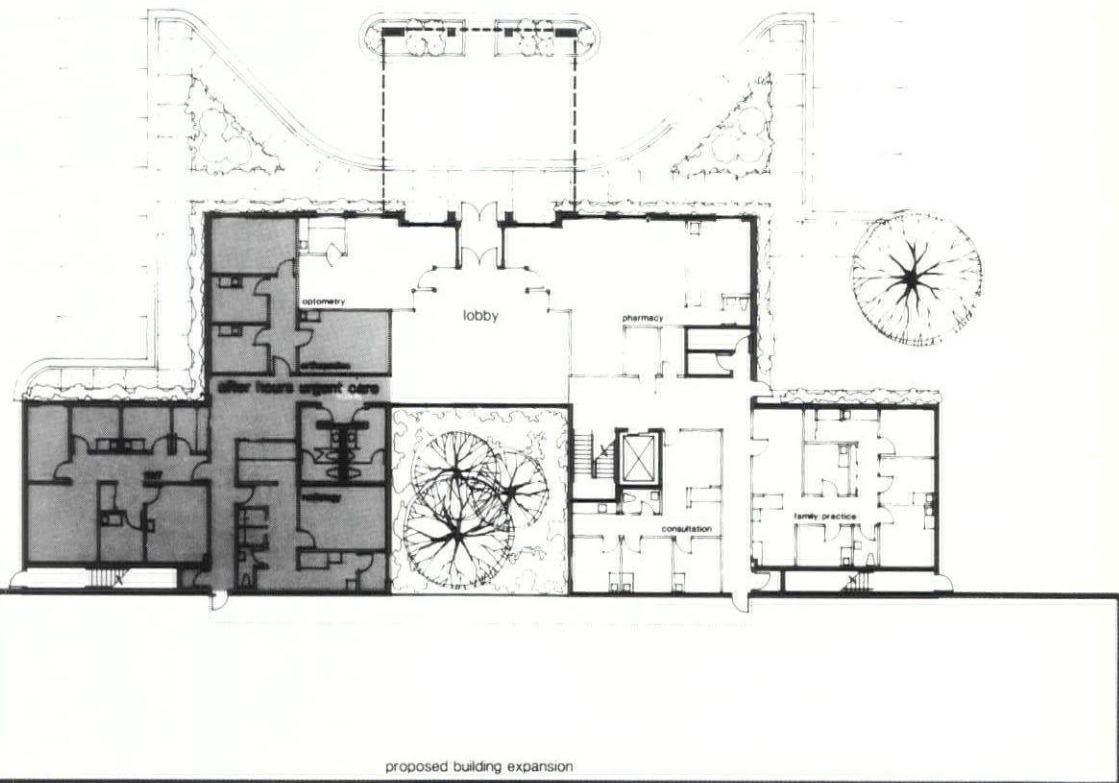
CITY _____ STATE _____

ZIPCODE _____ PHONE _____



Institutional

Project: Mequon Medical Park
Architect: Kahler · Slater · Torphy · Engberg, Milwaukee, Wisconsin
Owner: NA
General Contractor: Stevens Construction Co.



FIRST FLOOR PLAN

MEQUON MEDICAL PARK
MEQUON WISCONSIN

The natural setting of a grove of trees is the location for Mequon's newest doctor's office building, Mequon Medical Park. The facility will convert to an urgent care center at night and on weekends.

The building's entry is the focal point of the unique design. Building materials were used in a creative way to provide interest on the exterior of the building.

Facade colors are brought to the interior in carpet, upholstery, wall colors, and casework. Stepped wall patterns of the exterior are repeated in the transparent partitions between public spaces and the lobby. A landscaped court can be seen from the lobby and major corridors.

A column-free design of bays ensures eventual remodeling flexibility. When complete, a landscaped court will be visible from lobby and main corridors. ■

Photos Continued on Page 24



ANOTHER OPTION FOR DESIGN PROFESSIONALS REGARDING ASBESTOS

What to do about asbestos? Everyone's got a theory . . . no one's sure they've got the answers.

One possible option is as follows:

1) In the Special Conditions, insert the following paragraph referenced to AIA-A201 1.1.3 - "no friable asbestos work of any nature is included in this contract."

2) In the Supplementary General Conditions, insert the following paragraph: "If during the construction of this project, work involving friable asbestos is suspected, or encountered, the owner or the owner's representative, shall be notified immediately and the owner with his own forces or by separate contract shall be responsible for complete investigation, removal, and disposition of the friable asbestos hazard in accordance with applicable laws and regulations."

LIABILITY REPORT: ARCHITECT EXONERATED

A judicial decision recently handed down from the Circuit Court in Door County affirms the roll of the architect during the construction phase of the project and denies the owner's claim that the architect is a guarantor that the building will be built in full conformance of plans and specifications.

The architect had been hired by the owner (a medical center) to provide professional services. A B151 had been executed. While the architect had offered to provide CM services through a B801, the owner had never signed the agreement.

After the foundations and cement block walls were erected and after the building was lowered onto the walls, cracks developed in the walls located in the southwest corner and at the north side of the walls. These cracks became substantial, and the owner eventually ordered the walls replaced. The owner then sued the architect for the replacement cost claiming that the architect failed to properly supervise the construction project and that his failure allowed the subcontractors to engage in poor work.

In deciding in favor of the architect, the judge specifically quoted the definition of construction phase services to be provided to the owner as set forth in the B151. In reviewing the facts of the case, the judge found that the architect's services were provided with the skill and judgment that would reasonably be expected from architects. The judge held that fault for the problem was apparently due to rainy weather, the failure of the owner who was acting as the general contractor to take the architect's recommended action when the cracks in the walls were first discovered, and the failure of the subcontractor to erect the walls in conformity with the plans. Congratulations to Pat Mangan, AIA, for his time, enthusiasm, and tenacity in defending himself in this case. Pat has donated to the WSA library several legal briefs and the decision of the court in this matter. To obtain this information . . . contact Eric at the WSA office.

PEOPLE AND PLACES

GORDON D. ORR, JR., FAIA, has retired from his position with the University of Wisconsin Madison, Department of Planning and Construction. Gordon combined his architectural career with a heavy involvement in Historic Preservation both locally and nationally. He is a past chairman of the National AIA Committee on Historic Resources and previously served on both the Madison Landmarks Commission and the Wisconsin Historic Review Board. The WSA wishes Gordon well in his retirement. It will provide us (WSA) with an even greater opportunity to utilize Gordon's many talents.

BOB SAJBEL, AIA lost his courageous fight against cancer earlier this summer. Bob was an enthusiastic and active participant in WSA activities at the state, local and national level for many years. He enjoyed the practice of architecture. He was concerned about the future of his profession. He was willing to actively participate in finding solutions to problems. He will be missed.

NEW HANDBOOK CHAPTERS

Two new chapters are available for the ARCHITECTS HANDBOOK OF PROFESSIONAL PRACTICE. B-4 Office Project Management and B-5 Design and Construction Cost Management. Call Karen or Sandra at the WSA office to update your Handbook. 1-800-362-3912 - Wisconsin . . . 257-8477 - Madison.

COPYRIGHT

Three calls in the last month, all pertaining to copyright protection for architects.

In all three situations third parties were using plans prepared by architects **without** the architect's consent. What to do?

Tragically in all three situations the architects had failed to copyright their work product. If they would have . . . they would have had an excellent lever to receive payment for their work product.

Copyrighting your work product takes less time than it does to read this article. All you need to do is place a notice of copyright on your work product (each page of plans, each specification, each request for proposal, etc.). The notice should contain the following:

- a) ©
- b) The year when the work was first distributed.
- c) Name of the copyright owner.
For example . . . © 1985 Flood and Associates.
For further information contact Eric at the WSA office.

FOR LOVE OR MONEY

The most frequent reason for Iowa architects to change jobs is the lack of potential promotion. This is according to the 1984 graduate research study conducted at the Graduate School of Business at Drake University. The results also indicated that the most frequent reason for accepting a new position was the quality of the firm's design.

Of the 109 respondents to this survey, 66% made at least one job change in the last ten years. About 35% of the respondents indicated that they do not intend to make a career with their present firm.

The findings of the survey suggest that as a group, architects are significantly more motivated by the opportunity for promotion and the quality of the firm's design than by other factors when making a job change. The data collected in the study indicates that architects, like other professions, are motivated by intrinsic factors. In contrast with other professionals, architects do place a heavy emphasis on pay, and extrinsic factors. This difference may reflect the fact that architects typically earn substantially less than other professionals and therefore pay is by necessity a more important factor.

What implications does this study have for architectural firms? Several conclusions appear to be clear. First, firms experiencing lower levels of employee turnover will be the organizations which provide a clear path of promotion, and the opportunity to expand responsibility and ability. Second, a firm with a good reputation in design will be in a much better position to attract the employees that it wants. Third, pay is the one extrinsic factor that cannot be ignored.

1985 "AIA GROUP PLAN FOR FIRMS" OPEN ENROLLMENT PERIOD ANNOUNCED

"The AIA Group Plan for Firms", which is also available to sole proprietors, will be available for purchase without health evidence between September 1 and October 31, 1985. Presently, approximately 25% of the active AIA firms nationally participate in the "Design Professionals Group Insurance Plan" of which the AIA Program is a part.

Besides competitive rates, the program features an "unusual" service package including:

1. Forty-eight hour claims service
2. Toll free or collect telephone access to the insurance service organization for all of your employees
3. Convenient office hours — 8:00 a.m. to 7:30 p.m. Central Time
4. Hospital Identification Cards for employees and dependents that actually "guarantee" coverage for the first two days of hospital confinement
5. "Current" monthly billings
6. Portability of benefits among firms participating in the plan
7. Periodic distribution of cost control literature
8. Professional plan monitoring and control by the AIA Insurance Trustees

For further information on this benefit of AIA membership, please call Sue Esquibel or Diane Sommerville at 1-800-854-0491 toll free (Association Administrators & Consultants, Inc.).

PROPRIETARY SPECIFICATIONS

Architects and engineers have some latitude in specifying or refusing to specify particular products or services for projects in which they provide services. The question is . . . how far can you go in specifying brand or trade name products or services on public projects?

This is a matter that has put braces on more than one attorney's children's teeth.

The bottom line seems to be that since a public body is free to accept or change proprietary specifications recommended by its consulting architect or engineer, and provided there has been free competition to convince the consultant of the virtue of a supplier's particular design, that the consultant's use of a proprietary specification to describe the features of a favored project is allowable.

For more information see Volume XIII, Number 1 of the "Guidelines for Improving Practice" published by the offices of Victor O. Schinnerer & Company.

MEMBERSHIP ACTION

DAY, KIERAN M., was approved for AIA Membership in the Southeast Wisconsin Chapter.

LINVILLE, E. EDWARD, was approved for Associate Membership in the Southwest Wisconsin Chapter.

CASPER, MICHAEL O., was approved for AIA Membership in the Southeast Wisconsin Chapter.

KRESINSKE, EDWARD L., was approved for AIA Membership in the Southeast Wisconsin Chapter.

WAGNER, ALAN J., was approved for Associate Membership in the Southeast Wisconsin Chapter.

PERCHES, LUIS BARBOSA, was approved for AIA Membership in the Southeast Wisconsin Chapter.

KOENIG, HAL, was approved for AIA Membership in the Southeast Wisconsin Chapter.

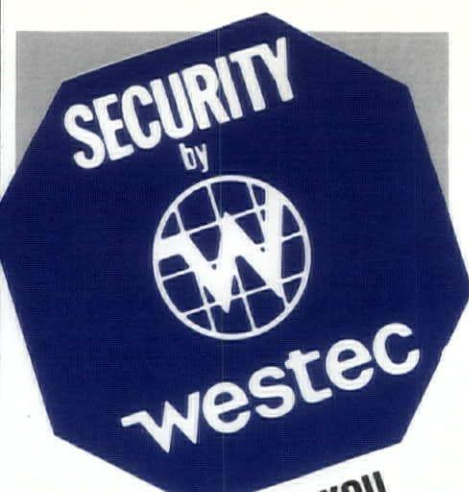
KOLBERG, TERRY, was approved for AIA Membership in the Southwest Wisconsin Chapter. He is upgrading from Associate Membership.

WILLIAMS, WILLIAM W., was approved for AIA Membership in the Southeast Wisconsin Chapter.

DRZEWIECKI, JAMES, was approved for AIA Membership in the Southeast Wisconsin Chapter.

PEOPLE & PLACES

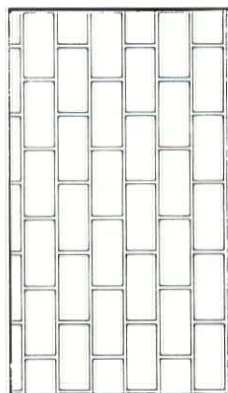
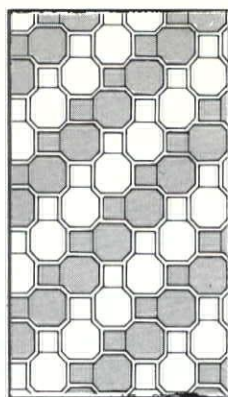
ARCHITECTURAL SERVICES ASSOCIATES formerly located at 143 Front Street, Beaver Dam, Wisconsin, is now located at 304 South Spring Street, Beaver Dam, Wisconsin 53916-2334. Phone Number (414) 887-1251.



WE PROTECT WHAT YOU TREASURE MOST.
The most trusted security systems since 1968.

westec SECURITY SYSTEMS
Distributed by Jacobus Security Systems, Inc.,
formerly Westinghouse Security Systems.

Milwaukee • (414) 258-5500
Racine-Kenosha • (414) 552-9493
Fond du Lac • (414) 921-7055
Janesville • (608) 752-1233



Design any outdoor area with the texture, pattern, color and human scale of WeatherSpec Interlocking Concrete Pavers. Our exclusive WeatherSpec severe weather grade pavers are second to none in quality or aesthetics.

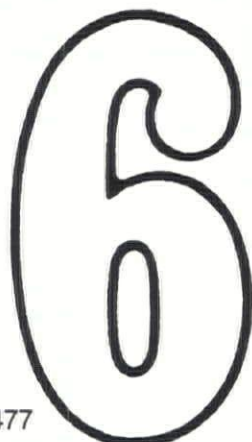
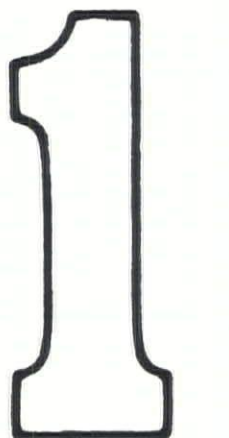
Appleton Waupun
Fond du Lac West Bend

BEND
BEND INDUSTRIES INC.

Marketing Department
P.O. Box 178
West Bend, WI 53095

Chicago 312/263-7556
Milwaukee Metro 414/273-2702
Wisconsin 414/334-5557

IF YOU'RE
AN
ADVERTISER
WHO NEEDS
A LITTLE
SPACE
LIKE
THIS
ONE-SIXTH
PAGE,
CALL
OUR
OFFICE
TODAY.
YOU'LL
FIND OUT
YOU
DON'T
HAVE TO
SPEND
A LOT
TO REACH
THE
PEOPLE
WHO
DESIGN
A LOT.
(608) 257-8477



PBBS EQUIPMENT CORPORATION

5401 N Park Dr.
Butler, WI 53007

MILWAUKEE . . (414) 781-9620

24 HOUR Radio Dispatch Truck Fleet for
INDUSTRY, INSTITUTIONS, SCHOOLS, etc.
AUTHORIZED PARTS & SERVICE FOR
CLEAVER — BROOKS, CLEVELAND
CONTROLS, MORR CONTROLS CO.
Throughout Wisconsin & Upper Michigan.
SALES, BOILER ROOM ACCESSORIES, O²
Trims, And-Car Automatic Bottom Blowdown
Systems. SERVICE - CLEANING ON ALL
MAKES. Complete Mobile Boiler Room Rentals.

MADISON (608) 249-6604

GREEN BAY (414) 494-3675

STEVENS POINT . . (715) 344-7310

Professional Sales Associates, Ltd.

Manufacturers' Representatives for

Kitchen and Bath Products

- Auburn Brass
- Carefree Faucets
- Kemper Kitchen Cabinets
- Kinkead Industries, Inc.
- King Refrigerator Corp.
- Mini Kitchens
- Miami Carey
- Universal-Rundle

2970 N. Brookfield Road, Brookfield, WI 53005
414/782-9006 1-800/792-3504, Ext. 232

Serving Wisconsin, Upper Michigan, Northern Illinois



Leteron is pleased to introduce VIS™ (Visual Information System) — a comprehensive new family of architectural signage and display cases. VIS meets virtually any visual information requirement with products featuring durability, versatility, protection from vandalism, easy message updating and low maintenance costs — all with a distinctive look that blends into any environment.

VIS also offers a variety of standard international symbols and pictograms which are becoming imperative as the need for multilingual signage increases. Custom pictograms can be designed or reproduced by Leteron staff artists.

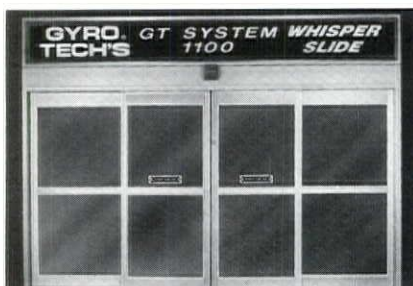
For more information and a free VIS brochure, contact Leteron, 3305 Kashiwa St., Torrance, CA 90505 800-446-5050.

MUSKEGO, WISCONSIN . . . A new, automatic pedestrian sliding door system, perfect for use in areas of heavy traffic, is now being marketed by Gyro Tech, Inc.

The GT 1100 WS, dubbed the "Whisper Slide," has the ability to quietly keep out the elements from public places such as hospitals, airports, supermarkets, etc. The complete system includes doors, operators and frames, and is available in a single door or bi-parting pair to fit virtually any desired opening. Standard finishes for the Whisper Slide are clear and dark bronze, with special finishes available upon request.

Meeting all building code requirements, the system can be tailored for an existing opening or surface applied. Systems may be operated by carpets, wall switches, motion sensors or remote switching systems. Safety features such as breakaway outswinging doors are standard. Many optional features are available as well.

For more information, contact Mark T. Johnson, Gyro Tech, Inc., P.O. Box 906, Muskego, WI 53150 414-679-0045.



Produced in line with the rigid requirements of AT&T for its recently completed office building in New York and those of its architect, Johnson/Burgee, this IAC Ceiling System is totally integrated and flexible with power track for task lighting and quiet ventilation (NC 35). Each 60 in. by 66 in. steel module of the System is finished with vinyl-coated micro-perforated steel assuring long service life and low maintenance. System offers sound absorption (NRC 0.90) and attenuation (NIC 43). These factors combine to eliminate need for separate sound barriers above the ceiling relative to the demountable ceiling-connected partitions below.

For more information, contact Industrial Acoustics Company, Inc., 1160 Commerce Ave., Bronx, NY 10462 212-931-8000.

Advertisers Index

ABC Supply Company, Inc.	14
ASI Sign Systems	20
American Surveying Co., Inc.	31
Arnold & O'Sheridan, Inc.	31
Automatic Temperature Supplies	Kohler Insert
Baker Mfg. Co.	Kohler Insert
Bend Industries, Inc.	16, 29
Joan Blackburn Concepts	21
Joan Blackburn Concepts	21
John Buhler Co., Inc.	21
Butler Tile Sales	22
C&R Model Co.	31
CAD Systems of Wisconsin	Insert
The Cheney Co.	10
Conditioned Air Design, Inc.	16
Corporate Development Corp.	14
Custom Components Co.	16
Desert Aire Corp.	22

Dolan & Dustin, Inc.	31
Downey, Inc.	19
General Electric Silicones	9
Graef, Anhalt, Schloemer & Associates	31
Holland & Kurtz, Inc.	31
International Market Square	4
Jacobus Security Systems, Inc.	29
Thomas H. Jaeschke & Associates	31
Johnson Controls	20
J.J. Koepsell Co.	Kohler Insert
Kohler Co.	Insert
Milwaukee Glass Block	14
Milwaukee Plumbing and Heating Supply	Kohler Insert
Murphy Supply Co.	Kohler Insert
Orlandini Studios, Ltd.	31
PBBS Equipment Corp.	29

W.S. Patterson Co.	Kohler Insert
Photocopy, Inc.	31
Professional Sales Associates, Ltd.	29
Roman Electric Co.	16
STS Consultants, Ltd.	31
C.G. Schmidt, Inc.	Insert
Schwenn & Associates, Ltd.	31
Stevens Construction Corp.	22
Twin City Testing	10
Unific Systems, Inc.	10
United Brick & Block	31
United Plumbing & Heating Supply	Kohler Insert
Vande Hey's Roofing Tile	Back Cover
Ver Halen, Inc.	16, 21
Wisconsin Brick & Block Corp.	22
Wisconsin Testing Laboratories	31
Wisconsin Testing Laboratories	31

PROFESSIONAL SERVICE DIRECTORY



Consulting Engineers

- Subsurface Exploration
- Foundation Analysis
- Ground Improvement
- Construction Monitoring

STS Consultants Ltd.

Green Bay, WI (414) 494-9656 • Milwaukee, WI (414) 354-1100

THOMAS H. JAESCHKE & ASSOCIATES, INC.

4085 N. 137th Street
Brookfield, Wis. 53005 (414) 781-6564

CONSULTANTS — DESIGNERS
FOOD SERVICE SYSTEMS & EQUIPMENT



DOLAN & DUSTIN, INC.

CONSULTING ENGINEERS

2266 N. PROSPECT AVENUE MILWAUKEE WIS 53202
(414) 276-5502

GEORGE E. DOLAN, PE
GERALD BRAUN, PE

ROGER A. NASS, PE
CHARLES MULLIKIN, PE
ARTHUR MILLER, PE



CONSULTING ENGINEERS

ASSOCIATES INC

Structural Municipal Environmental

6415 West Capitol Drive Milwaukee, Wisconsin 53216 414-461-6900

Holland & Kurtz Inc.

Consulting Engineers

HEATING • VENTILATION • AIR CONDITIONING
PLUMBING • FIRE PROTECTION

6619 W. Capitol Drive • Milwaukee, Wisconsin 53216
(414) 463-1600



C & R MODEL CO.

Quality Models to enhance your presentation
20 years experience

Proposed Facilities • Study Models • Exhibits
Engineering Aids • Legal • Zoning

Ron Behnke, Rt. One, Box 49, Barneveld, WI 53507
608-924-9505

*Black & White Murals *8x10 Glossy Repros
*We Reproduce Blueprints or Masters For
Making Blueprints

PHOTOCOPY

104 East Mason St. Milwaukee, Wisconsin 53202

For Service . . .

CALL: 1-(414)-272-1255



American Surveying Company, Inc.

11931 Hwy. "K"
Franksville, Wisconsin 53126

Providing Preliminary Architectural Surveys

Pete L. Bailey, R.L.S.
President

(414) 835-4774



Wisconsin TESTING LABORATORIES

Geotechnical Engineers

Soil Borings

Materials Testing & Inspection

Menomonee Falls, WI 53051 • (414) 252-3300

ORLANDINI STUDIOS, Ltd.

DECORATIVE PLASTER SUPPLY CO.

SINCE 1936

ARCHITECTURAL ORNAMENT
SUPPLY - INSTALL - RESTORE

Julian Orlandini

633 W. Virginia St.
Milwaukee, Wis. 53204

414-272-3657



ARNOLD AND O'SHERIDAN, INC.

CONSULTING ENGINEERS

Structural Electrical
Mechanical Civil

608•271•9651
815 FORWARD DRIVE MADISON, WI 53711

414•797•8705
2505 N. 124TH BROOKFIELD, WI 53005

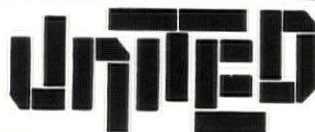
JOB CAPTAINS

Min. 5 yrs exp comm. bldg.

ARCHITECT

Min 8-10 yrs exp for team on high rise comm. projects.
Reply Schwenn & Assoc. Ltd. 4524 N. 12th St.,
Phoenix, AZ. 85014. Attn: Steve Nelson

When You Write Advertisers . . .
Say That You Saw It In
The Wisconsin Architect
It Will Help Us Help You.



brick & block, inc.

Glazed Tile, Spectraglaze,

• Quality Face Brick •

Glen Gery — Hanley — Midland — Ochs — Richtex
Insulation, Cements, Block, Fireplaces & Access.
Superior Zero Clearance Fireplaces

5402 Lien Road Madison, Wisc. 53704
Contact: Joe Goodwin (608) 241-3844

VANDE HEY RALEIGH

ARCHITECTURAL ROOF TILE

"the best roof under the sun"

PERMANENT Vande Hey-Raleigh Architectural Roof Tile is a 50 year warranted roof. Completely weatherproof... withstands tropic summers, frigid winters, with equal ease. Termite-proof, rodent-proof, rot-proof concrete roof tile will offer protection from the elements for as long as the structure stands. Reroofing costs are eliminated.

BEAUTY Vande Hey-Raleigh Roof Tile offers a practical beauty never before possible. We now offer three distinct styles.

ROUGH SHAKE, EARLY AMERICAN SLATE and the RIVIERA STYLE.

SUPERIOR FEATURES Fifty year warranty! Light-weight concrete roof tile! Permanent, impregnated color throughout the tile! Eleven standard colors, plus, WE CUSTOM COLOR TILE, made to order for both new construction and those hard to match restoration projects!

Vande Hey-Raleigh Architectural Roof Tile is a beautiful, maintenance free, non-combustible roof system.

It costs less than fire treated cedar shakes, clay or slate.

Our sales people are active throughout your area and will be happy to meet with you. Call soon for the sales representative nearest you.

VANDE HEY RALEIGH

ARCHITECTURAL ROOF TILE

1665 BOHM DRIVE - P.O. BOX 263
LITTLE CHUTE, WI 54140
PHONE (414) 766-1181

